Smooth Muscle Actin Monoclonal Antibody (1A4)

Catalog Number: MA1-06110

**Details**

<table>
<thead>
<tr>
<th>Details</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>50 µg</td>
</tr>
<tr>
<td>Host/Isotope</td>
<td>Mouse / IgG2a</td>
</tr>
<tr>
<td>Class</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Type</td>
<td>Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>1A4</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Peptide corresponding to residues E(1) E E D S T A L V C(10) of alpha-smooth muscle actin with an acetylated n-terminus coupled to KLH.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
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<tr>
<td>Concentration</td>
<td>1 mg/mL</td>
</tr>
<tr>
<td>Purification</td>
<td>purified</td>
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<tr>
<td>Storage buffer</td>
<td>PBS</td>
</tr>
<tr>
<td>Contains</td>
<td>0.09% sodium azide</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>4°C or -20°C if preferred</td>
</tr>
</tbody>
</table>

**Species Reactivity**

- **Species reactivity**: Many (Dog, Rabbit, Rat, Pig, Non-human primate, Bovine, Sheep, Cat, Human, Mouse, Not Applicable, Rhesus monkey)

**Tested Applications**

- Immunocytochemistry (ICC) 1:100-1:250
- Immunofluorescence (IF) 1:10-1:100
- Immunohistochemistry (Frozen) (IHC (F)) 1:10-1:100
- Immunohistochemistry (Paraffin) (IHC (P)) 1:10-1:100
- Immunomicroscopy (IM) Assay dependent
- Western Blot (WB) 1:100-1:500

**Published Applications**

- Western Blot (WB): See 17 publications below
- Immunohistochemistry (Paraffin) (IHC (P)): See 6 publications below
- Immunohistochemistry (IHC): See 178 publications below
- Miscellaneous PubMed (MISC): See 2 publications below
- Immunohistochemistry (Frozen) (IHC (F)): See 1 publication below
- Immunocytochemistry (ICC): See 26 publications below
- Flow Cytometry (Flow): See 3 publications below

**Published Applications**

- Western Blot (WB): See 17 publications below
- Immunohistochemistry (Paraffin) (IHC (P)): See 6 publications below
- Immunohistochemistry (IHC): See 178 publications below
- Miscellaneous PubMed (MISC): See 2 publications below
- Immunohistochemistry (Frozen) (IHC (F)): See 1 publication below
- Immunocytochemistry (ICC): See 26 publications below
- Flow Cytometry (Flow): See 3 publications below

- Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**

MA1-06110 detects a-smooth muscle actin (α-SM1) in human, rat, goat, porcine, non-human primate, quail, ovine, xenopus, monkey and chicken samples. Since the epitope recognized by MA1-06110 is highly conserved, it can also cross-react with protocordiates, lower cranates and mammals other than those specifically listed. MA1-06110 has successfully been used in immunocytochemistry, immunomicroscopy, immunohistochemistry, and Western blotting procedures. The MA1-06110 immunogen is a peptide corresponding to residues E(1) E E D S T A L V C(10) of alpha-smooth muscle actin with an acetylated n-terminus coupled to KLH. MA1-06110 specifically recognizes the epitope Ac-EEED on a-smooth muscle actin.

**Background/Target Information**

Smooth Muscle Actin belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actin being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. In particular, smooth muscle actin is an alpha actin that is found in skeletal muscle. Actin exists as a ubiquitous protein involved with filament formation that make up large portions of the cytoskeleton. Actin filaments interact with myosin to assist in muscle contraction as well as aiding in cell motility and cytokinesis. Smooth muscle actin is found on smooth muscle vessel walls, gut wall, myometrium, myoepithelial cells in breast and salivary glands. Defects in the smooth muscle actin gene cause aortic aneurysm familial thoracic type 6. Actin isoforms differ slightly in their N-terminal and C-terminal ends.
terminus and the sequences of each are perfectly conserved in higher vertebrates. Alpha-smooth muscle actin is abundant in vascular and visceral smooth muscle cells. In addition, it has also been shown that smooth muscle actin appear in stress fibers of fibroblastic cells during pathological situations involving contractile phenomena such as wound healing and fibrocontractive diseases. Multiple alternatively spliced variants of smooth muscle actin have been identified.
Smooth Muscle Actin Antibody (MA1-06110) in IF

Immunofluorescent analysis of human small intestine using Smooth Muscle alpha Actin monoclonal antibody (Product # MA1-06110) (1:1000).
**17 Western Blot References**

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
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<tbody>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the mechanism by which adenoviral overexpression of PGC-1alpha rescues dystrophic skeletal muscle.</td>
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<tr>
<td><strong>Mouse / 1:2000</strong></td>
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</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the ex vivo reversal of in vivo transdifferentiation of mesothelial cells.</td>
</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the ability of vaccination against PDGF-D to protect against hepatic fibrosis in a rat model of acute liver injury.</td>
</tr>
<tr>
<td><strong>Mouse / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study hypermethylation of the progesterone receptor isoform B promoter in adenomyosis and the effects of a HDAC inhibitor and a demethylating agent.</td>
</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the mechanism for inhibition of liver fibrosis by platelet-derived growth factor B kinoids used to study the ability of vaccination against PDGF-D to protect against hepatic fibrosis in a rat model of acute liver injury.</td>
</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the ability of vaccination against PDGF-D to protect against hepatic fibrosis in a rat model of acute liver injury.</td>
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<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study VEGF expression, localization, and function in pituitary hyperplasia of dopamine D2 receptor-knockout female mice.</td>
</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-06110 was used in western blot to study the ability of vaccination against PDGF-D to protect against hepatic fibrosis in a rat model of acute liver injury.</td>
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</tbody>
</table>


*Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Product documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, the warranty is limited to one year from date of shipment when the Product is subject to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.*

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MA1-06110 was used in western blot to study the synergistic role of Wnt and retinoic acid in the overexpression of the retinoic acid-responsive gene Stra6 in human cancers.

**Mouse / 1 ug/ml**

Cancer research (May 2001; 61: 4197)

"Overexpression of the retinoic acid-responsive gene Stra6 in human cancers and its synergistic induction by Wnt-1 and retinoic acid."


PubMed Article URL: http://dx.doi.org/null

MA1-06110 was used in western blot to study the tumorigenesis and drug susceptibility of three new canine mammary tumor cell lines.

**Human / 1:100**

Research in veterinary science (Apr 2010; 88: 285)

"Assessment of the tumorigenesis and drug susceptibility of three new canine mammary tumor cell lines."

Author(s): Chang CY, Chiou PP, Chen WJ, Li YH, Yu JC, Cheng YH, Chen SD, Lin CT, Lai YS

PubMed Article URL: http://dx.doi.org/10.1016/j.rvs.2009.08.006

MA1-06110 was used in western blot to study the role of msad3 signaling in epithelial-mesenchymal transition of lens epithelium during wound healing.

**Pig / 1:500**

The American journal of pathology (Feb 2004; 164: 651)

"Sma3 signaling is required for epithelial-mesenchymal transition of lens epithelium after injury."


PubMed Article URL: http://dx.doi.org/10.1016/S0002-9440(10)63153-7

MA1-06110 was used in western blot to study the ability of vaccination against TGF-beta1 to protect against hepatic fibrosis in a liver injury model.

**Human / Not Cited**


"Ginkgo biloba extract inhibits endotoxin-induced human aortic smooth muscle cell proliferation via suppression of toll-like receptor 4 expression and NADPH oxidase activation."

Author(s): Lin FY, Chen YH, Chen YL, Wu TC, Li CY, Chen JW, Lin SJ

PubMed Article URL: http://dx.doi.org/10.1021/jf062945r

MA1-06110 was used in western blot to study the role of MAPK/Erk signaling in the mechanism by which asbestos exposure induces plasticity in alveolar epithelial cells.

**Human / Not Cited**

Journal of cellular biochemistry (Jul 2012; 113: 2234)

"Asbestos exposure induces alveolar epithelial cell plasticity through MAPK/Erk signaling."

Author(s): Tamminen JA, Myllärniemi M, Hyttinen M, Keski-Oja J, Koli K

PubMed Article URL: http://dx.doi.org/10.1002/jcb.24094

MA1-06110 was used in western blot to study the role of GroEL1 in induction of LOX-1 expression in endothelial cells and its effect on atherogenesis in hypercholesterolemic rabbits.

**Human / Not Cited**


"GroEL1, a heat shock protein 60 of Chlamydia pneumoniae, induces lectin-like oxidized low-density lipoprotein receptor 1 expression in endothelial cells and enhances atherogenesis in hypercholesterolemic rabbits."

Author(s): Lin FY, Lin YW, Huang CY, Chang YJ, Tsao NW, Chang NC, Ou KL, Chen TL, Shih CM, Chen YH

PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1003116

MA1-06110 was used in western blot to study the mechanism by which germline Brca1 mutation promotes luminal-to-basal mammary tumor transformation.

**Mouse / Not Cited**

Oncogene (May 2013; 32: 2715)

"Germline mutation of Brca1 alters the fate of mammary luminal cells and causes luminal-to-basal mammary tumor transformation."

Author(s): Bai F, Smith MD, Chan HL, Pei XH

PubMed Article URL: http://dx.doi.org/10.1038/onc.2012.293
6 Immunohistochemistry (Paraffin) References

Species / Dilution

Mouse / 1:500

MA1-06110 was used in western blot to study the role of HIF-1 in the development of fibrosis in mice in response to hypoxia

The Journal of clinical investigation (Dec 2007; 117: 3810)
"Hypoxia promotes fibrogenesis in vivo via HIF-1 stimulation of epithelial-to-mesenchymal transition."
PubMed Article URL: http://dx.doi.org/10.1172/JCI30487

Human / 1:400

MA1-06110 was used in western blot to study the role of ERM/ETV5 during myometrial infiltration in endometrial cancer

Cancer research (Jul 2007; 67: 6753)
"ERM/ETV5 up-regulation plays a role during myometrial infiltration through matrix metalloproteinase-2 activation in endometrial cancer."
PubMed Article URL: http://dx.doi.org/10.1158/0008-5472.CAN-06-4487

Not Applicable / 34 ng/ml

6 Immunohistochemistry (Paraffin) References

Summary

MAC-06110 was used in immunohistochemistry - paraffin section to study human lacrimal epithelium and histatin-1 expression

Not Applicable / Not Cited

PloS one (Jul 2016; 11: null)
"Histatin-1 Expression in Human Lacrimal Epithelium."
Author(s): Shah D, Ali M, Pasha Z, Jaboori AJ, Jassim SH, Jain S, Aakalu VK
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0148018

Human / Not Cited

The American journal of pathology (Oct 2016; 186: 2650)
"Altered Dermal Fibroblasts in Systemic Sclerosis Display Podoplanin and CD90."
PubMed Article URL: http://dx.doi.org/10.1016/j.ajpath.2016.06.020

Rat / 1:5000

MA1-06110 was used in immunohistochemistry - paraffin section to study the epithelial and stromal alterations in prostate following cypermethrin administration in adult albino rats

Histology and histopathology (Jun 2015; 30: 737)
"Beneficial effects of cannabinoid receptor type 2 (CB2R) in injured skeletal muscle post-contusion."
Author(s): Hashem HE, Abd El-Haleem MR, Abass MA
PubMed Article URL: http://dx.doi.org/10.1016/j.histp.2015.04.007

Rat / 1:200

MA1-06110 was used in immunohistochemistry - paraffin section to study the role of cannabinoid receptor type 2 (CB2R) during skeletal muscle regeneration

Histology and histopathology (Jun 2015; 30: 737)
"Beneficial effects of cannabinoid receptor type 2 (CB2R) in injured skeletal muscle post-contusion."
Author(s): Yu T, Wang X, Zhao R, Zheng J, Li M, Ma W, Zhang S, Guan D
PubMed Article URL: http://dx.doi.org/10.1016/j.histp.2015.04.007

Human / Not Cited

MA1-06110 was used in immunohistochemistry - paraffin section to study the role of cannabinoid receptor type 2 (CB2R) during skeletal muscle regeneration

PloS one (Jan 2016; 9: null)
"Comparative characterization of stroma cells and ductal epithelium in chronic pancreatitis and pancreatic ductal adenocarcinoma."
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0094357

Not Applicable / 34 ng/ml

Development (Cambridge, England) (Apr 2006; 133: 1389)
"PAR3 is essential for cyst-mediated epidermal development by establishing apical cortical domains."
Author(s): Hirose T, Karasawa M, Sugitani Y, Fujisawa M, Akimoto K, Ohno S, Noda T
PubMed Article URL: http://dx.doi.org/10.1242/dev.02294

178 Immunohistochemistry References
<table>
<thead>
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<th>Summary</th>
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<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to report on a case of myointimoma of the glans penis.</td>
<td>Human / Not Cited</td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to investigate the influence of PPARgamma on wound healing in mice.</td>
<td>Mouse / 1:100</td>
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<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to characterize gastrointestinal stromal tumors.</td>
<td>Human / 1:200</td>
</tr>
<tr>
<td>Romanian journal of morphology and embryology – Revue roumaine de morphologie et embryologie (Sep 2011; 52: 265) &quot;Histopathological and immunohistochemical features of gastrointestinal stromal tumors.&quot;</td>
<td>Author(s): Fulop E, Marcus S, Borda A, Moldovan C, Fulop E, Loghin A, Pava Z PubMed Article URL: <a href="http://dx.doi.org/null">http://dx.doi.org/null</a></td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to investigate the characteristics of fibrosis in patients with alcoholic and viral chronic hepatitis.</td>
<td>Human / 1:2000</td>
</tr>
<tr>
<td>Romanian journal of morphology and embryology – Revue roumaine de morphologie et embryologie (Nov 2010; 51: 265) &quot;Immunohistochemical comparative study of fibrosis and biliary ductular reaction in alcoholic and viral chronic hepatitis.&quot;</td>
<td>Author(s): Egyed-Zsigmond I, Jung I, Egyed-Zsigmond I, Marton G, Gurzu S, Mezei T PubMed Article URL: <a href="http://dx.doi.org/null">http://dx.doi.org/null</a></td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to investigate the effect of chronic high-fat diets on increasing pancreatic free fatty acids and lipid peroxidation.</td>
<td>Rat / 1:10</td>
</tr>
<tr>
<td>Pancreas (Oct 2008; 37: E31) &quot;Chronic high-fat diets induce oxide injuries and fibrogenesis of pancreatic cells in rats.&quot;</td>
<td>Author(s): Zhang X, Cui Y, Fang L, Li F PubMed Article URL: <a href="http://dx.doi.org/10.1097/MPA.0b013e318174b570">http://dx.doi.org/10.1097/MPA.0b013e318174b570</a></td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to study the role of inflammation in the development of renal interstitial fibrosis in normoglycemic Zucker obese rats.</td>
<td>Rat / 1:300</td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to report on a case of malignant gastrointestinal stromal tumor of the gallbladder.</td>
<td>Human / 1:100</td>
</tr>
<tr>
<td><strong>MA1-06110</strong> was used in immunohistochemistry to investigate the role of lumican in epithelial-mesenchymal Transition during lens epithelial cell injury response.</td>
<td>Mouse / 1:100</td>
</tr>
</tbody>
</table>
MA1-06110 was used in immunohistochemistry to report on a case of desmoplastic small round cell tumor of the submandibular gland.

Human / 1:100

Human pathology (Mar 2010; 41: 438)  
"Desmoplastic small round cell tumor of the submandibular gland--a rare but distinctive primary salivary gland neoplasm."  
Author(s): Yin WH, Guo SP, Yang HY, Chan JK  
PubMed Article URL: http://dx.doi.org/10.1016/j.humpath.2009.08.015

MA1-06110 was used in immunohistochemistry to study glomerular structural and functional changes in a high-fat diet mouse model of early-stage Type 2 diabetes.

Mouse / Not Cited

Diabetologia (Sep 2004; 47: 1541)  
"Glomerular structural and functional changes in a high-fat diet mouse model of early-stage Type 2 diabetes."  
Author(s): Wei P, Lane PH, Lane JT, Padanilam BJ, Sansom SC  
PubMed Article URL: http://dx.doi.org/10.1007/s00125-004-1489-1

MA1-06110 was used in immunohistochemistry to study the temporal and cellular expression of Egr-1 during wound repair in rat skeletal muscle.

Rat / 1:100

Journal of molecular biology (Feb 2013; 44: 75)  
"Time-dependent expression and distribution of Egr-1 during skeletal muscle wound healing in rats."  
Author(s): Fan YY, Ye GH, Lin KZ, Yu LS, Wu SZ, Dong MW, Han JG, Feng XP, Li XB  
PubMed Article URL: http://dx.doi.org/10.1010/s10735-012-9445-8

MA1-06110 was used in immunohistochemistry to investigate the effect of Smad7 gene transfer on fibrogenic responses by the retinal pigment epithelium.

Mouse / 1:100

"Effect of Smad7 gene overexpression on transforming growth factor beta-induced retinal pigment fibrosis in a proliferative vitreoretinopathy mouse model."  
Author(s): Saika S, Yamanaka O, Nishikawa-Ishida I, Kitano A, Flanders KC, Okada Y, Ohnishi Y, Nakajima Y, Ikeda K  
PubMed Article URL: http://dx.doi.org/10.1001/archopht.125.5.647

MA1-06110 was used in immunohistochemistry to study the clinicopathological implications and mechanisms of cellular differentiation in carcinoma ex pleomorphic adenoma.

Human / 1:200

Journal of Korean medical science (Oct 2011; 26: 1277)  
"Carcinoma ex pleomorphic adenoma of the salivary glands: distinct clinicopathologic features and immunoprofiles between subgroups according to cellular differentiation."  
Author(s): Kim JW, Kwon GY, Roh JL, Choi SH, Nam SY, Kim SY, Cho KJ  

MA1-06110 was used in immunohistochemistry to develop an in vitro model of trophoblast invasion of spiral arteries.

Rat / Not Cited

Pancreas (Nov 2007; 35: 366)  
"Allopurinol in rat chronic pancreatitis: effects on pancreatic stellate cell activation."  
Author(s): Tasci I, Deveci S, Isik AT, Comert B, Akay C, Mas N, Inal V, Yamanel L, Mas MR  
PubMed Article URL: http://dx.doi.org/10.1097/MPA.0b013e31806dbaa

MA1-06110 was used in immunohistochemistry to study the absence of estrogen and progesterone receptors in cerebral cavernomas.

Human / 1:1000

Methods in molecular medicine (Apr 2006; 122: 59)  
"An in vitro model of trophoblast invasion of spiral arteries."  
Author(s): Cartwright JE, Wareing M  
PubMed Article URL: http://dx.doi.org/10.1007/1-84628-057-1

MA1-06110 was used in immunohistochemistry to study the absence of estrogen and progesterone receptors in cerebral cavernomas.

Human / Not Cited

Surgical neurology (Sep 2009; 72: 263)  
"There are no estrogen and progesterone receptors in cerebral cavernomas: a preliminary immunohistochemical study."  
Author(s): Kaya AH, Ulus A, Bayr Y, Topal A, Gun S, Kandemir B, Dagcinar A, Senel A, lyigun O  
PubMed Article URL: http://dx.doi.org/10.1016/j.surneu.2008.09.014
MA1-06110 was used in immunohistochemistry to report on a case of vulvar leiomyosarcoma in a cat. (PubMed Article URL: http://dx.doi.org/10.1016/j.jfms.2007.04.002)

MA1-06110 was used in immunohistochemistry to study the involvement of bone marrow cells in airway epithelial restoration following naphthalene-induced injury. (PubMed Article URL: http://dx.doi.org/10.1002/ar.20574)

MA1-06110 was used in immunohistochemistry to evaluate the effectiveness of two scaffolds for adipose tissue engineering. (PubMed Article URL: http://dx.doi.org/10.1007/s00441-011-1226-2)

MA1-06110 was used in immunohistochemistry to investigate the effect of ROCK inhibition on chronic pulmonary hypertension in rats. (PubMed Article URL: http://dx.doi.org/10.1152/ajpheart.00595.2010)

MA1-06110 was used in immunohistochemistry to study the incidence of multiple primary sporadic gastrointestinal stromal tumors. (PubMed Article URL: http://dx.doi.org/10.1089/pho.2008.2237)

MA1-06110 was used in immunohistochemistry to study the effect of visible and infrared polarized light on skin wound healing in rats. (PubMed Article URL: http://dx.doi.org/10.1182/blood-2008-2237)

MA1-06110 was used in immunohistochemistry to study the role of CXCL12 in organ vascularization. (PubMed Article URL: http://dx.doi.org/10.1182/blood-2004-07-2563)

MA1-06110 was used in immunohistochemistry to study Enterovirus replication in valvular tissue from patients with chronic rheumatic heart disease. (PubMed Article URL: http://dx.doi.org/10.1053/euhj.2001.2837)

MA1-06110 was used in immunohistochemistry to study Enterovirus replication in valvular tissue from patients with chronic rheumatic heart disease. (PubMed Article URL: http://dx.doi.org/10.1089/pho.2008.2237)

MA1-06110 was used in immunohistochemistry to study the role of CXCL12 in organ vascularization. (PubMed Article URL: http://dx.doi.org/10.1182/blood-2004-07-2563)

MA1-06110 was used in immunohistochemistry to study Enterovirus replication in valvular tissue from patients with chronic rheumatic heart disease. (PubMed Article URL: http://dx.doi.org/10.1053/euhj.2001.2837)
MA1-06110 was used in immunohistochemistry to develop a recombinant in vitro cellular model of lung hypoplasia.

**Rat / 1:400**

*The American journal of pathology (Jan 2012; 180: 48)*

"'The pulmonary mesenchymal tissue layer is defective in an in vitro recombinant model of nitrofen-induced lung hypoplasia.'"

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Author(s): van Loenhout RB, Tsuei I, Fox EK, Huang Z, Tibboel D, Post M, Keijzer R

PubMed Article URL: http://dx.doi.org/10.1016/j.ajpath.2011.09.032

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**Mouse / 1:1000**

American journal of physiology. Lung cellular and molecular physiology (Apr 2005; 288: L672)

"Overexpression of lunatic fringe does not affect epithelial cell differentiation in the developing mouse lung."

Author(s): van Tuyl M, Groenman F, Kuliszewski M, Ridsdale R, Wang J, Tibboel D, Post M

PubMed Article URL: http://dx.doi.org/10.1152/ajplung.00247.2004

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**Mouse / 1:400**


"Loss of semaphorin-neuropilin-1 signaling causes dysmorphic vascularization reminiscent of alveolar capillary dysplasia."

Author(s): Joza S, Wang J, Fox E, Hillman V, Ackerley C, Post M

PubMed Article URL: http://dx.doi.org/10.1016/j.ajpath.2012.08.037

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**Mouse / 1:200**

Journal of vascular research (Jul 2008; 45: 343)

"Gene expression during the development of experimentally induced cerebral aneurysms."


PubMed Article URL: http://dx.doi.org/10.1159/000119200

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**Mouse / 1:5000**

Matrix biology : journal of the International Society for Matrix Biology (Sep 2014; 38: 91)

"Tight skin 2 mice exhibit a novel time line of events leading to increased extracellular matrix deposition and dermal fibrogenesis in the murine Tsk2 model of systemic sclerosis.

Author(s): Long KB, Artlett CM, Blankenhorn EP

PubMed Article URL: http://dx.doi.org/10.1016/j.matbio.2014.05.002

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**Human / Not Cited**

Surgical and radiologic anatomy : SRA (Aug 2014; 36: 551)

"Dynamic intersection of the longitudinal muscle and external anal sphincter in the layered structure of the anal canal posterior wall."

Author(s): Muro S, Yamaguchi K, Nakajima Y, Watanabe K, Harada M, Nimura A, Akita K

PubMed Article URL: http://dx.doi.org/10.1007/s00276-013-1228-8

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**Mouse / 1:200**

Lung (Nov 2008; 186: 179)

"Bone marrow-derived cells participate in stromal remodeling of the lung following acute bacterial pneumonia in mice."

Author(s): Serikov VB, Mikhaylov VM, Krasnodembskay AD, Matthay MA

PubMed Article URL: http://dx.doi.org/10.1016/j.matbio.2011.09.032

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**Mouse / 1:100**

Laboratory investigation; a journal of technical methods and pathology (Feb 2013; 93: 207)

"Impaired cornea wound healing in a tenascin C-deficient mouse model."

Author(s): Sumioka T, Kitanos Flanders KC, Okada Y, Yamanaka O, Fujita N, Iwanishi H, Kao WW, Saika S

PubMed Article URL: http://dx.doi.org/10.1038/labinvest.2012.157

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MA1-06110 was used in immunohistochemistry to study the role of lin(-)c-kit(+)Sca-1+ stem cells from bone marrow in the vasculogenesis of Lewis lung carcinoma.

Mouse / Not Cited
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Human / Not Cited
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Mouse / 1:1000
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Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA
thermofisher.com/contactus
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Human / 1:50

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Pig / 1:3000

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**Human / 1:400**


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**Mouse / 1:50**

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**Rat / 1:150**

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Cat / 0.1 ug/ml
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Human / 1:50
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Human / 1:300

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Human / 1:200

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Diagnostic pathology (Dec 2009; 4: null)
"Giant cell tumor-like lesion of the urinary bladder: a report of two cases and literature review; giant cell tumor or undifferentiated carcinoma?"
Author(s): Behzatolu K, Durak H, Canberk S, Aydin O, Huq GE, Oznur M, Ozalyavacı G, Yildiz P
PubMed Article URL: http://dx.doi.org/10.1186/1746-1596-4-48

Mouse / 1:100

MA1-06110 was used in immunohistochemistry to investigate the effect of imatinib treatment on drug delivery and efficacy in non-small cancer lung cell xenografts.

Molecular vision (Jul 2010; 16: 1194)
"Suppression of injury-induced epithelial-mesenchymal transition in a mouse lens epithelium lacking tenascin-C."
Author(s): Tanaka S, Sumioka T, Fujita N, Kitano A, Okada Y, Yamanaka O, Flanders KC, Miyajima M, Saika S
PubMed Article URL: http://dx.doi.org/null

Mouse / 1:400

MA1-06110 was used in immunohistochemistry to evaluate a new surgical cornea replacement procedure.

British journal of cancer (Sep 2007; 97: 735)
"Treatment with imatinib improves drug delivery and efficacy in NSCLC xenografts."
Author(s): Vlahovic G, Ponce AM, Rabbanzi Z, Salahuddin FK, Gzonjanin L, Spasojevic I, Vujaskovic Z, Dewhirst MW
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Mouse / 0.2 ug/ml

MA1-06110 was used in immunohistochemistry to investigate the influence of osteopontin deletion on epithelial-mesenchymal transition.

The British journal of ophthalmology (Jul 2008; 90: 826)
"Microkeratome assisted deep lamellar keratoplasty."
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Mouse / Not Cited

MA1-06110 was used in immunohistochemistry to study the role of elevated myocardial expression of VEGF in the pathology of human tetralogy of Fallot.

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Mouse / Not Cited

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Determination: research in biological diversity (Apr 2011; 81: 261)
"Runx3 is a crucial regulator of alveolar differentiation and lung tumorigenesis in mice."
Author(s): Lee JM, Shin JO, Cho KW, Hosoya A, Cho SW, Lee YS, Ryoo HM, Bae SC, Jung HS
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MA1-06110 was used in immunohistochemistry to study the role of elevated myocardial expression of VEGF in the pathology of human tetralogy of Fallot.

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"DNA microarray and quantitative analysis reveal enhanced myocardial VEGF expression with stunted angiogenesis in human tetralogy of Fallot."
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Transplantation proceedings (Sep 2008; 40: 2167)
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Author(s):Cheng F,Li Y,Feng L,LI S
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MA1-06110 was used in immunohistochemistry to study the significance of macrophage-derived MMP2 and MMP9 for the progression of cerebral aneurysms in rats.

Rat / Not Cited
Stroke (Jan 2007; 38: 162)
"Macrophage-derived matrix metalloproteinase-2 and -9 promote the progression of cerebral aneurysms in rats."
Author(s):Aoki T,Kataoka H,Morimoto M,Nozaki K,Hashimoto N
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MA1-06110 was used in immunohistochemistry to study the role of LTBP-1 in modulating TGF-beta levels in the lungs of patients with idiopathic pulmonary fibrosis.

Human / Not Cited
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"Regulation of TGF-β storage and activation in the human idiopathic pulmonary fibrosis lung."
Author(s):Leppäranta O,Sens C,Salmenkivi K,Kinnula VL,Keski-Oja J,Myllärniemi M,Koli K
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MA1-06110 was used in immunohistochemistry to report on a case of inflammatory pseudotumor of the kidney.

Human / Not Cited
International urology and nephrology (Oct 2004; 36: 141)
"Inflammatory pseudotumor of the kidney."
Author(s):Bildirci K,Dönmaz T,Gürlek E
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MA1-06110 was used in immunohistochemistry to investigate deciduoid features of malignant mesothelioma by histomorphological and immunohistochimical evaluation.

Human / 1:200
Diagnostic cytopathology (Jun 2011; 39: 402)
"Primary malignant deciduoid peritoneal mesothelioma: a report of the cyhistochemical and immunohistochemical appearances."
Author(s):Ustun H,Astarci HM,Sungu N,Özdemir A,Ekinci C
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"Methodologic advancements in the study of airway smooth muscle."

MA1-06110 was used in immunohistochemistry to study the effect of donor alcohol consumption on experimental airway disease following heterotopic transplantation.

Rat / Not Cited
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"Alcohol ingestion by donors amplifies experimental airway disease after heterotopic transplantation."
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Human / Not Cited
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"Two intraligamentary lipomatous tumors with immunohistochemical features."
Author(s):Cinel L,Dümez D,Nabaei SH,Taner D,Pata O
PubMed Article URL:http://dx.doi.org/null
MA1-06110 was used in immunohistochemistry to study the serum angiogenic factor profile of women with complete placenta previa

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"Accreta complicating complete placenta previa is characterized by reduced systemic levels of vascular endothelial growth factor and by epithelial-to-mesenchymal transition of the invasive trophoblast."

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Human / 1:1000

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Molecular vision (Aug 2006; 12: 841)

"Gene transfer of Smad7 modulates injury-induced conjunctival wound healing in mice."

Author(s):Yamanaka O,Ikedo K,Saika S,Miyazaki K,Ooshima A,Ohnishi Y

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Mouse / 1:100

MA1-06110 was used in immunohistochemistry to study the use of peritoneum in stent linings


"Biological coating for arterial stents: the next evolutionary change in stents."

Author(s):Carnevale K,Ouriel K,Gabriel Y,Clair D,Bena JF,Silva MB,Sarac TP

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Dog / 1 ug/ml

MA1-06110 was used in immunohistochemistry to study hair follicle multipotent stem cells that express nestin and are capable of differentiating into neurons

Cell cycle (Georgetown, Tex.) (Sep 2012; 11: 3513)

"Multipotent nestin-expressing stem cells capable of forming neurons are located in the upper, middle and lower part of the vibrissa hair follicle."


PubMed Article URL:http://dx.doi.org/10.4161/cc.21803

Mouse / 1:200

MA1-06110 was used in immunohistochemistry to study the expression of the novel mesangium-predominant megsin gene in the renal tissues of various glomerular diseases

Pathology international (Jun 2008; 58: 390)

"Glomeruloid hemangioma."

Author(s):Yuri T,Yamazaki F,Takasu K,Shikata N,Tsubura A

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Human / Not Cited

MA1-06110 was used in immunohistochemistry to report on a case of glomeruloid hemangioma

The Turkish journal of gastroenterology : the official journal of Turkish Society of Gastroenterology (Sep 2004; 15: 187)

"Synchronous primary adenocarcinoma and gastrointestinal stromal tumor in the stomach: a report of two cases."

Author(s):Bircan S,Candir O,Aydin S,Bapinar S,Bülbül M,Kapucuolu N,Karahan N,Ciri M

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Human / Not Cited

MA1-06110 was used in immunohistochemistry to study the expression of the novel mesangium-predominant megsin gene in the renal tissues of various glomerular diseases


"Expression of megsin mRNA, a novel mesangium-predominant gene, in the renal tissues of various glomerular diseases."


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Human / Not Cited

MA1-06110 was used in immunohistochemistry to report on two patients with synchronous primary adenocarcinoma and gastrointestinal stromal tumor in the stomach

The Turkish journal of gastroenterology : the official journal of Turkish Society of Gastroenterology (Sep 2004; 15: 187)

"Synchronous primary adenocarcinoma and gastrointestinal stromal tumor in the stomach: a report of two cases."

Author(s):Bircan S,Candir O,Aydin S,Bapinar S,Bülbül M,Kapucuolu N,Karahan N,Ciri M

PubMed Article URL:http://dx.doi.org/null

Human / 1:100

MA1-06110 was used in immunohistochemistry to study the cyclooxygenase-2 expression and its effect on mesenchymal tumor growth and recurrence

APMIS : acta pathologica, microbiologica, et immunologica Scandinavica (Nov 2009; 117: 825)

"Cyclooxygenase-2 expression and connection with tumor recurrence and histopathologic parameters in gastrointestinal stromal tumors."

Author(s):Türköz HK,Alkan I,Siman S,Ozcan D

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Human / Not Cited
MA1-06110 was used in immunohistochemistry to report a clinical case of dedifferentiated liposarcoma of the retroperitoneum with unique features

Human / Not Cited
Sarcoma (Jul 2011; 2008: null)
"Dedifferentiated Liposarcoma of the Retroperitoneum with Extensive Leiomyosarcomatous Differentiation and beta-Human Chorionic Gonadotropin Production."
Author(s):Russell MJ,Flynt FL,Harroff AL,Fadare O
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Rat / 1:100
Transplantation (Jan 2005; 79: 165)
"Reduction of postischemic immune inflammatory response: an effective strategy for attenuating chronic allograft nephropathy."
Author(s):Herrero-Fresneda I,Torras J,Vidal A,Lloberas N,Cruzado JM,Grinyó JM
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Human / Not Cited
Brain tumor pathology (Apr 2013; 30: 117)
"Dural angioleiomyoma of the middle cranial fossa: a case report and review of the literature."
Author(s):Zhou Z,Yu M,Yang SJ,Zhou J,Sun R,Yang G
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Human / 1:400
American journal of respiratory and critical care medicine (May 2004; 169: 1001)
"Hyperplasia of smooth muscle in mild to moderate asthma without changes in cell size or gene expression."
Author(s):Woodruff PG,Dolganov GM,Ferrando RE,Donnelly S,Hays SR,Solberg OD,Carter R,Wong HH,Cadbury PS,Fahy JV
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Rat / 1:50
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Author(s):Palmieri K,Mannikarottu AS,Chichester P,Kogan B,Leggett RE,Whitelock C,Levin RM
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Rat / 1:400
Molecular carcinogenesis (Dec 2004; 41: 207)
"Mammary ECM composition and function are altered by reproductive state."
Author(s):Schedin P,Mitrella T,McDaniel S,Kaeck M
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Mouse / Not Cited
American journal of physiology. Gastrointestinal and liver physiology (Mar 2011; 300: G433)
"Deficiency in myeloid differentiation factor-2 and toll-like receptor 4 expression attenuates nonalcoholic steatohepatitis and fibrosis in mice."
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Rat / 1:150
"Attenuation of ureteral obstruction-induced renal injury by polyenylphosphatidylcholine."
Author(s):Akin M,Demirbilek S,Ay S,Gurunluoglu K,Turkmen E,Tas E,Aksoy RT,Baykarabulut A,Edali MN
PubMed Article URL:http://dx.doi.org/10.1111/j.1442-2042.2006.01717.x
MA1-06110 was used in immunohistochemistry to study the mechanisms underlying the protective and therapeutic effects of thymoquinone in a rat model of cholestatic liver disease.

**Rat / 1:50**

*Journal of molecular histology* (Apr 2012; 43: 151)

"Protective effects of thymoquinone against cholestatic oxidative stress and hepatic damage after biliary obstruction in rats."

Author(s): Oguz S, Kanter M, Erboga M, Erenoglu C

PubMed Article URL: http://dx.doi.org/10.1007/s10735-011-9390-y

Human / Not Cited

MA1-06110 was used in immunohistochemistry to study the ability of Sertoli cells to improve survival of motor neurons in a mouse model of amyotrophic lateral sclerosis.

**Human / Not Cited**

*Experimental neurology* (Dec 2005; 196: 235)

"Sertoli cells improve survival of motor neurons in SOD1 transgenic mice, a model of amyotrophic lateral sclerosis."


Mouse / 1:200

MA1-06110 was used in immunohistochemistry to investigate the role of Notch and p63 in regulation of mammary epithelial cell fates.

**Mouse / 1:200**

*Cell death and differentiation* (Oct 2010; 17: 1600)

"Antagonistic roles of Notch and p63 in controlling mammary epithelial cell fates."

Author(s): Yalcin-Ozuyal O, Fiche M, Gutierrez M, Wagner KU, Raffoul W, Brisken C

PubMed Article URL: http://dx.doi.org/10.1038/cdd.2010.37

Human / Not Cited

MA1-06110 was used in immunohistochemistry to study nestin expression in renal tubulointerstitial injury and its prognostic value in IgA nephropathy.

**Human / Not Cited**

*Nephrology (Carlton, Vic.)* (Aug 2010; 15: 568)

"Nestin is a novel marker for renal tubulointerstitial injury in immunoglobulin A nephropathy."

Author(s): Tomioka M, Hiromura K, Sakairi T, Takeuchi S, Maeshima A, Kaneko Y, Kuroiwa T, Takeuchi T, Nojima Y

PubMed Article URL: http://dx.doi.org/10.1111/j.1440-1797.2010.01342.x

Human / 1:400

MA1-06110 was used in immunohistochemistry to characterize a specific case of sealer adenomyoepithelioma.

**Human / 1:400**

*The American journal of surgical pathology* (Oct 2010; 34: 1550)

"Primary adenomyoepithelioma of the sellar region: a case report."

Author(s): Rychly B, Kazakov DV, Danis D, Szep Z, Michal M

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Human / Not Cited

MA1-06110 was used in immunohistochemistry to study genome-wide transcriptional changes during the differentiation of human embryonic stem cells into endothelial cells for therapy of ischemic heart disease.

**Human / Not Cited**

*PloS one* (Dec 2009; 4: null)

"Functional and transcriptional characterization of human embryonic stem cell-derived endothelial cells for treatment of myocardial infarction."


PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0008443

Human / Not Cited

MA1-06110 was used in immunohistochemistry to identify and characterize porcine gonocytes and establish in vitro culture.

**Human / Not Cited**

*Biology of reproduction* (Jul 2007; 77: 127)

"Identification, isolation, and in vitro culture of porcine gonocytes."

Author(s): Goel S, Sugimoto M, Minami N, Yamada K, Kume S, Imai H

PubMed Article URL: http://dx.doi.org/10.1095/biolreprod.106.056679

Pig / 1:500

MA1-06110 was used in immunohistochemistry to investigate the effect of p63 on the invasiveness of breast cancer.

**Pig / 1:500**

*Journal of the American Association for Laboratory Animal Science : JAALAS* (Mar 2011; 50: 252)

"Use of p63, a myoepithelial cell marker, in determining the invasiveness of spontaneous mammary neoplasia in a rhesus macaque (Macaca mulatta)."

Author(s): Williams-Fritze MJ, Carlson Scholz JA, Bossuyt V, Booth CJ

PubMed Article URL: http://dx.doi.org/10.1095/biolreprod.106.056679

Non-human primate / 1:1500

MA1-06110 was used in immunohistochemistry to report on two cases of malignant transformation of adenomyoepithelioma of the breast by a monophasic population.

**Non-human primate / 1:1500**

*APMIS : acta pathologica, microbiologica, et immunologica Scandinavica* (Apr 2013; 121: 272)

"Malignant transformation of adenomyoepithelioma of the breast by a monophasic population: a report of two cases and review of literature."

Author(s): Marian C, Boila A, Soanca D, Malau M, Podeanu DM, Resetkova E, Stolnicu S

PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0463.2012.02982.x

MA1-06110 was used in immunohistochemistry to report on two cases of primary kaposiform hemangioendothelioma of a long bone

Human / 1:200

Pathology international (Jun 2011; 61: 382)
"Primary kaposiform hemangioendothelioma of a long bone: two cases in unusual locations with long-term follow up."

Author(s):Ma J,Shi QL,Jiang SJ,Zhou HB,Zhou XJ
PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2011.02681.x

Mouse / 1:200

Proceedings of the National Academy of Sciences of the United States of America (Dec 2005; 102: 17734)
"Implanted hair follicle stem cells form Schwann cells that support repair of severed peripheral nerves."

Author(s):Amoh Y,Li L,Campillo R,Kawahara K,Katsuoka K,Penman S,Hoffman RM
PubMed Article URL:http://dx.doi.org/10.1073/pnas.050840102

Mouse / Not Cited

MA1-06110 was used in immunohistochemistry to investigate the transdifferentiation ability of hair follicle stem cells

Mouse / 1:200

MA1-06110 was used in immunohistochemistry to study the role of Thy-1 in the repair of murine skin wounds using siRNA-mediated knockdown

Mouse / Not Cited

Journal of dermatological science (Feb 2013; 69: 95)
"Thy-1 knockdown retards wound repair in mouse skin."

Author(s):Lee MJ,Shin JO,Jung HS
PubMed Article URL:http://dx.doi.org/10.1016/j.jdermsci.2012.11.009

Mouse / 1:100

MA1-06110 was used in immunohistochemistry to investigate the influence of TNFalpha deletion on skin wound healing

Mouse / Not Cited

Archives of dermatological research (Aug 2009; 301: 531)
"Impaired cutaneous wound healing with excess granulation tissue formation in TNFalpha-null mice."

Author(s):Shinnozaki M,Okada Y,Kitano A,Iked K,Saika S,Shinnozaki M
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Rat / Not Cited

Laboratory investigation; a journal of technical methods and pathology (Jul 2009; 89: 730)
"Reactive oxygen species modulate growth of cerebral aneurysms: a study using the free radical scavenger edaravone and p47phox(-/-) mice."

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Rat / Not Cited

Inflammatory bowel diseases (Jun 2008; 14: 826)
"Subcutaneous adipose tissue-derived stem cells facilitate colonic mucosal recovery from 2,4,6-trinitrobenzene sulfonic acid (TNBS)-induced colitis in rats."

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PubMed Article URL:http://dx.doi.org/10.1002/ibd.20382

Rat / Not Cited

MA1-06110 was used in immunohistochemistry to study the ability of subcutaneous adipose tissue-derived stem cells to promote colonic mucosal recovery in a rat model of colitis

Human / Not Cited

Journal of pharmacological sciences (Oct 2015; 126: 230)
"Exacerbation of intracranial aneurysm and aortic dissection in hypertensive rat treated with the prostaglandin F-receptor antagonist AS604872."

Author(s):Fukuda M,Aoki T,Manabe T,Maekawa A,Shirakawa T,Kataoka H,Takagi Y,Miyamoto S,Narumiya S
PubMed Article URL:http://dx.doi.org/10.1002/jphs.201570002

Human / Not Cited

MA1-06110 was used in immunohistochemistry to examine the adverse effect of prostaglandin F-receptor antagonist AS604872 on brain vasculature

Human / Not Cited

Journal of immunology (Baltimore, Md. : 1950) (Apr 2014; 192: 3011)
"Long-term B cell depletion in murine lupus eliminates autoantibody-secreting cells and is associated with alterations in the kidney plasma cell niche."

Author(s):Wang W,Rangel-Moreno J,Owen T,Barnard J,Nevarez S,Ichikawa HT,Anolik JH
PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1302003


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### MA1-06110

<table>
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<tr>
<th>Species</th>
<th>Concentration</th>
<th>Application</th>
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<tbody>
<tr>
<td>Mouse</td>
<td>1:100</td>
<td>Immunohistochemistry</td>
<td>Boo YJ, Fisher JC, Haley MJ, Cowles RA, Kandel JJ, Yamashiro DJ, 2009</td>
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<tr>
<td>Mouse</td>
<td>1:100</td>
<td>Immunohistochemistry</td>
<td>Yesilaltay A, Daniels K, Pal R, Krieger M, Kocher O, 2009</td>
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<tr>
<td>Human</td>
<td>1:100</td>
<td>Immunohistochemistry</td>
<td>Saglam EA, Usubütün A, Kart C, Ayhan B, Küçükali T, 2005</td>
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MA1-06110 was used in immunohistochemistry to study the mechanisms underlying the beneficial effects of using platelet-rich plasma in composite chondrocutaneous graft procedures

**Rabbit / Not Cited**


"Use of platelet-rich plasma solution applied with composite chondrocutaneous graft technique: an experimental study in rabbit model."

Author(s): Sevim KZ, Yazar M, Irmak F, Tekkein MS, Yildiz K, Sirvan SS

PubMed Article URL: http://dx.doi.org/10.1016/j.joms.2014.01.001

**Rat / 1:800**

Transplantation proceedings (Nov 2010; 42: 3663)

"Pancreatic islet derived stem cells can express co-stimulatory molecules of antigen-presenting cells."

Author(s): Karaoz E, Okcu A, Sagliam O, Genc ZS, Ayhan S, Kasap M

PubMed Article URL: http://dx.doi.org/10.1016/j.transproceed.2010.07.093

**Mouse / 1:100**

Molecular vision (Sep 2007; 13: 1730)

"Inhibition of p38MAP kinase suppresses fibrogenic reaction in conjunctivae in mice."

Author(s): Yamanaka O, Saika S, Ohnishi Y, Kim-Mitsuyama S, Kamaraju AK, Ikeda K

PubMed Article URL: http://dx.doi.org/10.1007/s00428-005-1209-3

**Human / Not Cited**

Acta biomaterialia (Sep 2008; 4: 1161)

"Influence of hydrogel mechanical properties and mesh size on vocal fold fibroblast extracellular matrix production and phenotype."

Author(s): Liu H, Munoz-Pinto D, Qu X, Hou Y, Grunlan MA, Hahn MS


**Human / Not Cited**

Virchows Archiv : an international journal of pathology (May 2005; 446: 546)

"Interdigitating dendritic cell tumor with breast and cervical lymph-node involvement: a case report and review of the literature."

Author(s): Uluolu O, Akyürek N, Uner A, Cokun U, Ozdemir A, Gököra N

PubMed Article URL: http://dx.doi.org/10.1007/s00428-005-1209-3

**Mouse / 1:200**

Cell cycle (Georgetown, Tex.) (Jun 2008; 7: 1865)

"Multipotent hair follicle stem cells promote repair of spinal cord injury and recovery of walking function."

Author(s): Amoh Y, Li L, Katauoka K, Hoffman PM

PubMed Article URL: http://dx.doi.org/10.4161/cc.7.12.6056

**Mouse / Not Cited**

The American journal of pathology (Mar 2013; 182: 646)

"Transgenic mice overexpressing neuregulin-1 model neurofibroma-malignant peripheral nerve sheath tumor progression and implicate specific chromosomal copy number variations in tumorigenesis."

Author(s): Kazmi SJ, Byer SJ, Eckert JM, Turk AN, Huijbregts RP, Brossier NM, Grizzle WE, Mikhail FM, Roth KA, Carroll SL

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**Mouse / Not Cited**

Molecular therapy : the journal of the American Society of Gene Therapy (Nov 2012; 20: 2043)

"Oral administration of recombinant adenovirus-associated virus-mediated bone morphogenetic protein-7 suppresses CCI (4)-induced hepatic fibrosis in mice."

Author(s): Hao ZM, Cai M, Lv YF, Huang YH, Li HH

PubMed Article URL: http://dx.doi.org/10.1038/mt.2012.148
MA1-06110 was used in immunohistochemistry to evaluate the biocompatible materials for lens epithelial cells

Journal of cataract and refractive surgery (Jun 2003; 29: 1198)

"Histology of anterior capsule opacification with a polyHEMA/HOHEMA hydrophilic hydrogel intraocular lens compared to poly(methyl methacrylate), silicone, and acrylic lenses."

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Rat / 1:100

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Mouse / Not Cited

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3 Flow Cytometry References

Species / Dilution

Summary

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Mouse / Not Cited

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