CD34 Monoclonal Antibody (QBEND/10)

Catalog Number MA1-10202

### Details
- **Size**: 100 µg
- **Host/Isotope**: Mouse / IgG1
- **Class**: Monoclonal
- **Type**: Antibody
- **Clone**: QBEND/10
- **Immunogen**: Human endothelial vesicles
- **Conjugate**: Unconjugated
- **Form**: Liquid
- **Concentration**: 1 mg/mL
- **Purification**: Protein A
- **Storage buffer**: PBS, pH 7.4
- **Contains**: no preservative
- **Storage Conditions**: 4° C, do not freeze

### Species Reactivity
- **Species Reactivity**: Human, Non-human primate
- **Species reactivity**: Rabbit, Rat, Bovine, Human, Mouse, Not Applicable
- **Published species**: Not Applicable

### Tested Applications
- **Flow Cytometry (Flow)**: 5 µg/mL
- **Functional Assay (FN)**: Assay-dependent
- **Immunohistochemistry (Frozen) (IHC (F))**: Assay-dependent
- **Immunohistochemistry (Paraffin) (IHC (P))**: 2-8 µg/mL
- **Immunoprecipitation (IP)**: Assay-dependent
- **Western Blot (WB)**: 1-2 µg/mL

### Published Applications
- **Immunocytochemistry (ICC/IF)**: See 12 publications below
- **Immunohistochemistry (IHC)**: See 145 publications below
- **Flow Cytometry (Flow)**: See 6 publications below
- **Immunohistochemistry (Paraffin) (IHC (P))**: See 4 publications below
- **Miscellaneous PubMed (Misc)**: See 1 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
This antibody will not cross-react with rat, bovine, canine or sheep. Functional Application: Induction.

### Background/Target Information
CD34 is a highly glycosylated monomeric with a molecular weight range of 111-115 kDa surface protein that is present on many stem cell populations. CD34 is a stem cell marker although its expression on human hematopoietic stem cells is reversible. CD34 may serve as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions. CD34 is possibly an adhesion molecule with a putative role for mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Further, CD34 could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C suggesting a putative role in signal transduction. Diseases associated with CD34 dysfunction include dermatofibrosarcoma and neurofibroma.

**CD34 Antibody (MA1-10202) in WB**  
Western blotting analysis of human CD34 using mouse monoclonal antibody QBEnd-10 on lysates of TF-1 cell line and HEK293T/17 cell line (CD34 non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2µg/mL of mouse anti-CD34 Monoclonal antibody (QBEnd-10) (Product # MA1-10202) followed by IRDye800-conjugated anti-mouse IgG1 secondary antibody. A specific band was detected for CD34 protein at approximately 110kDa.

**CD34 Antibody (MA1-10202) in Flow**  
Flow cytometry multicolor surface staining of human peripheral blood stained using anti-human CD34 (QBEnd-10) purified Monoclonal antibody (Product # MA1-10202) (concentration in sample 0.6 µg/mL, GAM APC, red-filled) and anti-human CD45 (MEM-28) Pacific Blue™ using a dilution of 10 µL reagent/100 µL of peripheral whole blood.

**CD34 Antibody (MA1-10202) in Flow**  
Separation of human CD45dim CD34 positive stem cells (red-filled) from human lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified Monoclonal antibody (Product # MA1-10202) (concentration in sample 0.6 µg/mL, GAM APC).

**CD34 Antibody (MA1-10202) in Flow**  
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified Monoclonal antibody (Product # MA1-10202) (concentration in sample 0.6 µg/mL, GAM APC).
CD34 Antibody (MA1-10202) in Flow
Flow cytometry analysis of CD34 in human peripheral blood cells (PBMCs) using anti-CD34 monoclonal antibody (Product # MA1-10202) followed by secondary staining using a Goat anti-Mouse APC conjugate.

CD34 Antibody (MA1-10202) in Flow
Flow cytometry analysis (surface staining) of CD34 in human peripheral blood with anti-CD34 (QBEnd-10) azide free Monoclonal antibody (Product # MA1-10202).
# 12 Immunocytochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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</thead>
<tbody>
<tr>
<td><strong>Rat / 1:100</strong></td>
<td>MA1-10202 was used in immunocytochemistry to study the induction neural differentiation of bone marrow stromal cells by neurotrophic Schwann-cell factors.</td>
</tr>
<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA1-10202 was used in immunocytochemistry to examine the nuclear transport of caldesmon and its role in nuclear function.</td>
</tr>
<tr>
<td><strong>Human / 1:200</strong></td>
<td>MA1-10202 was used in immunocytochemistry to study the effect of fibronectin on macrophage differentiation of HL60 cells induced by phorbol 12-myristate 13-acetate.</td>
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<tr>
<td><strong>Human / 1:25</strong></td>
<td>MA1-10202 was used in immunocytochemistry to investigate the effect of fibronectin on macrophage differentiation of HL60 cells induced by phorbol 12-myristate 13-acetate.</td>
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<td><strong>Human / 1 µg/mL</strong></td>
<td>MA1-10202 was used in immunocytochemistry to study the effects of cyclical tensile stretch on the BMP-2 pathway during osteogenic differentiation of adipose-derived stem cells.</td>
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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 is limited to repair, replacement of or refund for the non-conforming Product(s) at Seller’s sole option. There is no obligation to replace, repair, replace or refund for Products as the result of (I) accident, disaster or event of force majeure, (II) misuse, fault or negligence of or by Buyer, (III) use of the Products in a manner for which they were not designed, (IV) improper storage and handling of the Products. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption or application to human or animals.
MA1-10202 was used in immunocytochemistry to test if MSCs in hemangioma also reside in the perivascular region.

**Pediatric and developmental pathology** : the official journal of the Society for Pediatric Pathology and the Paediatric Pathology Society (May 2012; 15:5)

"Mesenchymal stem cells in infantile hemangioma reside in the perivascular region."

Author(s): Yuan SM, Chen RL, Shen WM, Chen HN, Zhou XJ

PubMed Article URL: http://dx.doi.org/10.2350/11-01-0959-0A.1

MA1-10202 was used in Immunocytochemistry-immunofluorescence to elucidate the mechanism of age-related macular degeneration.

**Microvascular research** (May 2019; 123: 50)

"Generation of an immortalized human choroid endothelial cell line (iChEC-1) using an endothelial cell specific promoter."


MA1-10202 was used in immunocytochemistry to study the anti-basal-like breast tumor activity of a novel PPAR gamma agonist in vitro and in vivo.

**Human / Not Cited**

Human / Not Cited

Mouse / Not Cited

MA1-10202 was used in immunocytochemistry-immunofluorescence to study kidney tissues obtained at autopsy from four severe COVID-19 patients and one healthy subject were examined by hematoxylin and eosin staining caused by SARS-CoV-2.

Movie: 1:500

Journal of medical virology (Feb 2023; 95: )

"SARS-CoV-2 infection of kidney tissues from severe COVID-19 patients."


PubMed Article URL: http://dx.doi.org/10.1002/jmv.28566

### 145 Immunohistochemistry References

<table>
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<tr>
<th>Species / Dilution</th>
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<tr>
<td><strong>Human / 1:50</strong></td>
<td>MA1-10202 was used in immunohistochemistry to study the diagnostic value of the immunohistochemical expression of DOG1 in gastrointestinal stromal tumors.</td>
</tr>
<tr>
<td><strong>Pathology, research and practice</strong> (Jul 2013; 209: 413)</td>
<td>&quot;Contribution of DOG1 expression to the diagnosis of gastrointestinal stromal tumors.&quot;</td>
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<tr>
<td>Author(s): Kara T, Serinoz E, Arpaci RB, Gubur O, Orelici G, Ata A, Colak T, Arican A</td>
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<td>PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.prp.2013.04.005">http://dx.doi.org/10.1016/j.prp.2013.04.005</a></td>
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<td><strong>Human / 1:100</strong></td>
<td>MA1-10202 was used in immunohistochemistry to study the molecular basis of lymphatic differentiation in classic Kaposi's sarcoma.</td>
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<tr>
<td><strong>Pathology oncology research</strong> : POR (Dec 2011; 17: 843)</td>
<td>&quot;Lymphatic differentiation in classic Kaposi's sarcoma: patterns of D2-40 immunoeexpression in the course of tumor progression.&quot;</td>
</tr>
<tr>
<td>Author(s): Kundemir NO, Barut F, Gun BD, Keser SH, Karadayi N, Gun M, Ozdamar SO</td>
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<td>PubMed Article URL: <a href="http://dx.doi.org/10.1007/s12253-011-9392-9">http://dx.doi.org/10.1007/s12253-011-9392-9</a></td>
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<tr>
<td><strong>Human / 1:50</strong></td>
<td>MA1-10202 was used in immunohistochemistry The report on a patient with pulmonary large cell carcinoma with rhabdoid phenotype.</td>
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<tr>
<td>Author(s): Yilmazbayhan D, Ates LE, Dilege S, Gulluoglu M, Tanju S, Kalayci G</td>
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<tr>
<td><strong>Human / 1:400</strong></td>
<td>MA1-10202 was used in immunohistochemistry to study the prognostic value of the immunohistochemical expression of MGMT in low-grade ganglioglioma.</td>
</tr>
<tr>
<td><strong>Folia neuropathologica</strong> (Jul 2014; 51: 275)</td>
<td>&quot;The prognostic impact of MGMT expression on low-grade gangliogliomas: a clinicopathological and immunohistochemical study.&quot;</td>
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<tr>
<td>Author(s): Chang IW, Hsu GT, Lin JW, Hung CH</td>
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<td>PubMed Article URL: <a href="http://dx.doi.org/10.5114/fn.2013.39716">http://dx.doi.org/10.5114/fn.2013.39716</a></td>
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</table>
MA1-10202 was used in immunohistochemistry to study the increased levels of circulating endothelial progenitor cells and circulating endothelial NOS in patients with gliomas.

**Human / 1:25**

Annals of neurology (Jul 2007; 62: 40)  "Increased levels of circulating endothelial progenitor cells and circulating endothelial nitric oxide synthase in patients with gliomas."

Author(s): Zheng PP, Hop WC, Luider TM, Sillevis Smitt PA, Kros JM

PubMed Article URL: http://dx.doi.org/10.1002/ana.21151

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Human / 1:1000

MA1-10202 was used in immunohistochemistry to report on a case of reactive nodular fibrous pseudotumor involving the pelvic and abdominal cavity

**Human / 1:400**


Author(s): Saglam EA, Usubutun A, Kart C, Ayhan A, Kucukali T

PubMed Article URL: http://dx.doi.org/10.1007/s00428-005-0027-y

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Human / 1:400

MA1-10202 was used in immunohistochemistry to study the effect of morphine on tumour angiogenesis in a murine model of breast cancer

**Mouse / Not Cited**


Author(s): Ustun F, Dumus-Altun G, Altaner S, Tuncbilek N, Uzal C, Berkarda S

PubMed Article URL: http://dx.doi.org/10.1016/j.1365-2559.2002.01443.x

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Human / 1:3000

MA1-10202 was used in immunohistochemistry to study the existence of novel routes of tumour spread via open channels of pseudoangiomatous stromal hyperplasia

**Human / 1:50**

Histopathology (Sep 2002; 41: 208)  "Malignant neoplasms infiltrating pseudoangiomatous' stromal hyperplasia of the breast: an unrecognized pathway of tumour spread."

Author(s): Damiani S, Eusebi V, Peterse JL

PubMed Article URL: http://dx.doi.org/10.1046/j.1365-2559.2002.01443.x

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Human / 1:3000

MA1-10202 was used in immunohistochemistry to study changes in the neoplastic microenvironment during the different morphological alterations of hyperplastic and pre-invasive breast lesions

**Human / 1:200**

BMC cancer (Apr 2008; 2011:)  "The assessment of angiogenesis and fibroblastic stromagenesis in hyperplastic and pre-invasive breast lesions."

Author(s): Pavlakis K, Messini I, Vrekoussis T, Yiannou P, Keramopoulos D, Louvrou N, Liakakos T, Thathopoulos EN

PubMed Article URL: http://dx.doi.org/10.1186/1471-2407-8-88

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Human / 1:200

MA1-10202 was used in immunohistochemistry to assess vascular endothelial growth factor expression and angiogenesis in patients with atrophic-erosive and reticular oral lichen planus

**Human / 1:20**

Oral surgery, oral medicine, oral pathology, oral radiology, and endodontics (May 2007; 103: 661)  "Assessment of local angiogenesis and vascular endothelial growth factor in the patients with atrophic-erosive and reticular oral lichen planus."

Author(s): Tao X, Huang Y, Li R, Qing R, Ma L, Rhodus NL, Cheng B

PubMed Article URL: http://dx.doi.org/10.1016/j.tripleo.2006.05.023

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Human / 1:20

MA1-10202 was used in immunohistochemistry to evaluate a cell culture system for stem cell propagation and differentiation

**Human / 1:20**

Proceedings of the National Academy of Sciences of the United States of America (Oct 2003; 100: 12741)  "Differentiation of human embryonic stem cells on three-dimensional polymer scaffolds."

Author(s): Levenberg S, Huang NF, Lavik E, Rogers AB, Itskovitz-Eldor J, Langer R

PubMed Article URL: http://dx.doi.org/10.1073/pnas.1735463100
<table>
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<tr>
<th>Human / Not Cited</th>
<th>MA1-10202 was used in immunohistochemistry to study the preservation of CD133+ tumor cells during direct orthotopic xenotransplantation of fresh surgical specimens into animal models of medulloblastoma and glioma</th>
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<td>MA1-10202 was used in immunohistochemistry to report on a case of hepatospenic T-cell lymphoma with leukemic transformation</td>
</tr>
<tr>
<td>Human / 0.2 mg/l</td>
<td>MA1-10202 was used in immunohistochemistry to examine the role of nitric oxide synthase and hypoxia-inducible factor 1 in the pathogenesis of human colorectal carcinoma</td>
</tr>
<tr>
<td>Human / 2 µg/mL</td>
<td>MA1-10202 was used in immunohistochemistry to study blood vessel stabilization and the expression of pro-angiogenic VEGF and Ang-2 in castration-resistant prostate cancer</td>
</tr>
<tr>
<td>The Prostate (May 2012; 72: 705)</td>
<td>&quot;Castration resistant prostate cancer is associated with increased blood vessel stabilization and elevated levels of VEGF and Ang-2.&quot; Author(s): Tomi TT, Gustavsson H, Wang W, Jennbacken K, Welén K, Damber JE PubMed Article URL: <a href="http://dx.doi.org/10.1002/pros.21472">http://dx.doi.org/10.1002/pros.21472</a></td>
</tr>
<tr>
<td>Human / 1:100</td>
<td>MA1-10202 was used in immunohistochemistry to study the expression of HIF-1alpha, VEGF and GLUT-1 in endometrioid type endometrium adenocarcinomas</td>
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<td>Human / 1:150</td>
<td>MA1-10202 was used in immunohistochemistry to investigate the therapeutic efficacy of prostaglandin E1 in ischemic heart disease</td>
</tr>
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<td>Human / 1:20</td>
<td>MA1-10202 was used in immunohistochemistry to study the differential expression of Hela-type caldesmon in tumor neovascularization and its potential as new marker of angiogenic endothelial cells</td>
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<td>Human / 1:200</td>
<td>MA1-10202 was used in immunohistochemistry to investigate the relationship between vascular endothelial growth factor expression and the pathology in renal allograft biopsies</td>
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MA1-10202 was used in immunohistochemistry to study the expression of magakaryocytic and myeloid markers in transient abnormal myelopoiesis.

Human / Not Cited

Human pathology (Jan 2011; 42: 141)

"Expression of magakaryocytic and myeloid markers in blasts of transient abnormal myelopoiesis in a stillbirth with Down syndrome: report of histopathological findings of an autopsy case."

Author(s): Ishigaki H, Miyauchi J, Yokoe A, Nakayama M, Yanagi T, Taga T, Ohta S, Itoh Y, Ogasawara K

PubMed Article URL: http://dx.doi.org/10.1016/j.humpath.2010.06.012

MA1-10202 was used in immunohistochemistry to study the maturation of angiogenesis by the immunohistochemical staining of colorectal cancer specimens

Human / Not Cited

Oncology (Oct 2005; 69: 159)

"Absence of smooth muscle actin-positive pericyte coverage of tumor vessels correlates with hematogenous metastasis and prognosis of colorectal cancer patients."

Author(s): Yonenaga Y, Mori A, Onodera H, Yasuda S, Oe H, Fujimoto A, Tachibana T, Imamura M

PubMed Article URL: http://dx.doi.org/10.1159/000087840

MA1-10202 was used in immunohistochemistry to report on a case of vaginal superficial myofibroblastoma

Human / Not Cited

Medical molecular morphology (Jun 2012; 45: 110)

"Vaginal superficial myofibroblastoma: a rare mesenchymal tumor of the lower female genital tract and a study of its association with viral infection."

Author(s): Liu JL, Su TC, Shen KH, Lin SH, Wang HK, Hsu JC, Chen CJ

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MA1-10202 was used in immunohistochemistry to screen a panel of 33 proteins to establish a set of biomarkers that predict the aggressiveness of prostate cancer

Human / 1:4000

BMC cancer (Apr 2014; 14: )

"Evaluation of protein biomarkers of prostate cancer aggressiveness."


PubMed Article URL: http://dx.doi.org/10.1186/1471-2407-14-244

MA1-10202 was used in immunohistochemistry to report on a case of malignant granular cell tumor with unusual histological features

Human / Not Cited

Pathology international (Feb 2007; 57: 115)

"Malignant granular cell tumor with unusual histological features."

Author(s): Behzatolu K, Bahadir B

PubMed Article URL: http://dx.doi.org/10.1111/j.1440-1827.2006.02066.x

MA1-10202 was used in immunohistochemistry to investigate the functions of prolactin in endothelial cells and its involvement in pathological angiogenesis

Human / Not Cited

Journal of cellular and molecular medicine (Sep 2012; 16: 2035)

"Functional consequences of prolactin signalling in endothelial cells: a potential link with angiogenesis in pathophysiology?"

Author(s): Reuwer AQ, Nowak-Sliwinska P, Mans LA, van der Loos CM, von der Thüsen JH, Twickler MT, Spek CA, Goffin V, Griffioen AW, Borensztajn KS

PubMed Article URL: http://dx.doi.org/10.1111/j.1582-4934.2011.01499.x

MA1-10202 was used in Immunohistochemistry-immunofluorescence to suggest that aldosterone-producing structures in adrenals with APA share common molecular characteristics and cellular environment, despite different mutation status, suggesting common developmental mechanisms.

Human / 1:5000

The Journal of clinical endocrinology and metabolism (Jan 2022; 107: 419)

"Colocalization of Wnt/-Catenin and ACTH Signaling Pathways and Paracrine Regulation in Aldosterone-producing Adenoma."


PubMed Article URL: http://dx.doi.org/10.1210/clincem/dgab707

MA1-10202 was used in immunohistochemistry to screen on two cases of superficial soft tissue biphasic synovial sarcoma presenting with apocrine differentiation

Human / 1:800

The American Journal of dermatopathology (Oct 2014; 36: 847)

"Superficial soft tissue biphasic synovial sarcoma with apocrine differentiation in the glandular component: a report of two cases."

Author(s): Shelekhova KV, Calonje E, Grossmann P, Kacerovska D, Koudela K, Mirka H, Michal M, Kazakov DV

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"Effect of lugol solution on thyroid gland blood flow and microvessel density in the patients with Graves’ disease."

Author(s): Erbil Y, Ozluk Y, Giri M, Salmasioglu A, Issever H, Barbaros U, Kapran Y, Ozarman S, Tezelman S

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MA1-10202 was used in immunohistochemistry to study two adult patients with mesenchymal hamartoma of the liver.

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"Mesenchymal hamartoma of the liver in adulthood: immunohistochemical profiles, clinical and histopathological features in two patients."

Author(s): Yessim G, Gupse T, Zafar U, Ahmet A

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MA1-10202 was used in immunohistochemistry to study the expression of hypoxia-inducible factor 1alpha and VEGF in hepatocellular carcinoma.

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World journal of gastroenterology (Mar 2005; 11: 1705)

"Expression of hypoxia-inducible factor 1alpha and vascular endothelial growth factor in hepatocellular carcinoma: Impact on neovascularization and survival."

Author(s): Huang GW, Yang LY, Lu WQ


MA1-10202 was used in immunohistochemistry to study the clinicopathology and immunohistochemistry of gastrointestinal stromal tumors.

Human / 1:400

Cancer research and treatment (Sep 2010; 42: 135)

"Clinicopathological and immunohistochemical features of gastrointestinal stromal tumors."

Author(s): Kang YN, Jung HR, Hwang I

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MA1-10202 was used in immunohistochemistry to investigate the role of smoking and air pollution in the development of chorangiosis.

Human / 1:50

Pathology, research and practice (May 2009; 205: 75)

"Chorangiosis: the potential role of smoking and air pollution."

Author(s): Akbulut M, Sorkun HC, Bir F, Erbal A, Duzcan E

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MA1-10202 was used in immunohistochemistry to report on a case of pseudoangiomatous stromal hyperplasia in a complex neoplastic lesion.

Human / 1:25

Journal of cutaneous pathology (Oct 2009; 36: 1117)

"Pseudoangiomatous stromal hyperplasia in a complex neoplastic lesion involving anogenital mammary-like glands."

Author(s): Vazmitel M, Pavlovsky M, Kacerovska D, Michal M, Kazakov DV

PubMed Article URL:http://dx.doi.org/10.1111/j.1600-0560.2009.01250.x

MA1-10202 was used in immunohistochemistry to study the effect of methanol toxicity on the expression of GFAP and CD34 in the human optic nerve and brain.

Human / Not Cited

Advances in therapy (Feb 2008; 25: 123)

"Gliarial fibrillary acidic protein (GFAP) and CD34 expression in the human optic nerve and brain in methanol toxicity."

Author(s): Türkmen N, Eren B, Fedakar R, Akgöz S, Comunolu N

PubMed Article URL:http://dx.doi.org/10.1007/s12325-008-0016-z

MA1-10202 was used in immunohistochemistry to study the role of HOXB7 expression in regulating the pro-angiogenic properties of myeloma cells in multiple myeloma.

Human / 1:50

Leukemia (Mar 2011; 25: 527)

"HOXB7 expression by myeloma cells regulates their pro-angiogenic properties in multiple myeloma patients."


PubMed Article URL:http://dx.doi.org/10.1038/leu.2010.270


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 Production documentation, specifications and/or accompanying package inserts ("Documentation"). Any 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 subjected 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.
MA1-10202 was used in immunohistochemistry to report on a case of aggressive angiomyxoma of the vulva

Gynecologic oncology (Dec 2004; 95: 724)  
"Aggressive angiomyxoma of the vulva."  
Author(s):Ribaldone R,Piantanida P,Surico D,Boldorini R,Colombo N,Surico N  
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MA1-10202 was used in immunohistochemistry to study caveolin-1 expression and microvessel density and its correlation with metastasis and poor prognosis in clear cell renal cell carcinoma

BJU International (Feb 2004; 93: 291)  
"Increased expression of caveolin-1 and microvessel density correlates with metastasis and poor prognosis in clear cell renal cell carcinoma."  
Author(s):Joo HJ,Oh DK,Kim YS,Lee KB,Kim SJ  
PubMed Article URL:http://dx.doi.org/10.1111/j.1464-410x.2004.04604.x

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MA1-10202 was used in immunohistochemistry to study the neuropathological features of the colon in patients with intractable slow transit constipation

Gut (Jan 2006; 55: 41)  
"The role of glial cells and apoptosis of enteric neurones in the neuropathology of intractable slow transit constipation."  
PubMed Article URL:http://dx.doi.org/10.1136/gut.2005.073197

Human / 1:30

MA1-10202 was used in immunohistochemistry to investigate the treatment of cyclosporin A-induced gingival overgrowth

Oral diseases (Apr 2008; 14: 244)  
"Non-surgical periodontal treatment of cyclosporin A-induced gingival overgrowth: immunohistochemical results."  
Author(s):Aimetti M,Romano F,Marisco A,Navone R  
PubMed Article URL:http://dx.doi.org/10.1111/j.1601-0825.2007.01364.x

Human / 1:200

MA1-10202 was used in immunohistochemistry to report on a case of pulmonary malignant epithelioid hemangioendothelioma incorrectly diagnosed as adenocarcinoma

Diagnostic cytopathology (Nov 2011; 39: 801)  
"A case of pulmonary malignant epithelioid hemangioendothelioma misdiagnosed as adenocarcinoma by fine needle aspiration cytology."  
Author(s):Ryu HS,Le SS,Choi HS,Baek H,Koh JS  
PubMed Article URL:http://dx.doi.org/10.1002/dc.21463

Human / 1:200

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Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc (Mar 2007; 20: 367)  
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Human / 1:30

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Clinical cancer research : an official journal of the American Association for Cancer Research (Jan 2005; 11: 154)  
"Increased vascularity predicts favorable outcome in follicular lymphoma."  
Author(s):Kosher A,van Krieken JH,Mackenzie MA,Schraders M,Borm GF,van der Laak JA,Leenders W,Hebeda K,Raemaekers JM  

Human / 1:750

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Applied immunohistochemistry & molecular morphology : AIMM (Jan 2014; 22: 37)  
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Human / 1:200

MEDICAL ADVICE: INDICATIONS, CONTRAINDICATIONS, WARNINGS, PRECAUTIONS, ADVERSE REACTIONS, DOSAGE AND ADMINISTRATION INFORMATION SHOWN ARE BASED ON IN VITRO STUDIES AND/or IN VIVO STUDIES  
Possible side effects and contraindications must be taken into account. Before using this product, consult the package insert for complete information. 
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MA1-10202 was used in immunohistochemistry to study the bone metastasis of primary breast cancer stem-like cells and the bone-tropism signature displayed by cells isolated from bone.

**Human / Not Cited**

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"Primary breast cancer stem-like cells metastasise to bone, switch phenotype and acquire a bone tropism signature."


PubMed Article URL: http://dx.doi.org/10.1038/bjc.2013.271

**Human / Not Cited**

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**Human / 1:100**

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"The change of cytokines in tear and blood after different pterygium operation."

Author(s): Lee J, Song Y, Shin J, Kwon Y, Shin M, Kim J C

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**Bovine / 1:750**


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**Human / 1:75**


"Analysis of prognostic and immunohistochemical factors in gastrointestinal stromal tumours with malignant potential."

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**Human / Not Cited**

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**Human / Not Cited**

*Medical molecular morphology* (Jun 2013; 46: 109)

"A rare malignant tumor of scalp in a 3-month-old Taiwanese infancy: case report of primitive myxoid mesenchymal tumor of infancy with molecular study."

Author(s): Su T C, Hwang M J, Li C F, Wang S C, Lee C H, Chen C J

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**Human / Not Cited**

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**Human / 1:200**

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Author(s): Tastekin E, Caloglu V Y, Durankus N K, Sut N, Turkkan G, Can N, Puyan F O, Caloglu M

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MA1-10202 was used in immunohistochemistry to study the spectrum of changes in the lipomatous and epithelial components in 5 cases of cutaneous adenolipoma

The American Journal of dermatopathology (Feb 2011; 33: 56)
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Author(s): Kazakov DV, Spagnolo DV, Kacerovska D, Kempf W, Michal M
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MA1-10202 was used in immunohistochemistry to study the role of RGS5 in the differentiation and angiogenesis of gastric carcinoma

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"Relationship between RGS5 expression and differentiation and angiogenesis of gastric carcinoma."
Author(s): Wang JH, Huang WS, Hu CR, Guan XX, Zhou HB, Chen LB

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Histopathology (Sep 2004; 45: 260)
"Morphological and immunohistochemical analysis of ductal plate malformation: correlation with fetal liver."
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Cancer research (Apr 2007; 67: 3329)
"Systematic urokinase-activated anthrax toxin therapy produces regressions of subcutaneous human non-small cell lung tumor in athymic nude mice."
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Neuroscience research (Mar 2008; 60: 275)
"Neural transdifferentiation of bone marrow stromal cells obtained by chemical agents is a short-time reversible phenomenon."
Author(s): Zurila M, Bonilla C, Otero L, Aguayo C, Vaquero J
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Journal of surgical oncology (Jul 2012; 106: 94)
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Pathology oncology research : POR (Mar 2006; 11: 242)
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MA1-10202 was used in immunohistochemistry to investigate the influence of PGE-1 on myocardic angiogenesis in patients with ischemic heart disease

MA1-10202 was used in immunohistochemistry to study the prognostic value of CD105 expression in postoperative recurrence and metastasis of hepatocellular carcinoma

MA1-10202 was used in immunohistochemistry to investigate the influence of PGE-1 on myocardic angiogenesis in patients with ischemic heart disease

MA1-10202 was used in immunohistochemistry to report on a case of solitary fibrous tumor of the submandibular gland

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Cytopathology : official journal of the British Society for Clinical Cytology (Dec 2007; 18: 384)
"Fine needle aspiration cytology of inflammatory myofibroblastic tumour (inflammatory pseudotumour) of the breast: a case report and review of the literature."
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Human / Not Cited

Gynecologic oncology (Dec 2006; 103: 1007)
"CD105 expression is an independent predictor of survival in patients with endometrial cancer."
Author(s):Erdem O,Taskiran C,Onan MA,Erdem M,Guner H,Ataoglu O
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MA1-10202 was used in immunohistochemistry to report on a case of interdigitating dendritic cell tumor with breast and cervical lymph-node involvement

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."
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Mouse / Not Cited

Proteome science (Jan 2011; 9: )
"Cardiogenol C can induce Mouse Hair Bulge Progenitor Cells to Transdifferentiate into Cardiomyocyte-like Cells."
Author(s):Yau WW,Tang MK,Chen E,Wong IW,Lee HS,Lee KKh
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Human / 1:250

Histopathology (Dec 2002; 41: 526)
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Human / 1:50

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"Pulmonary meningothelial-like nodules: new insights into a common but poorly understood entity."
Author(s):Mukhopadhyay S,El-Zammar OA,Katzenstein AL
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Human / 1:800

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"Benign schwannoma with perineurioma-like areas: A clinicopathologic study of 11 cases."
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Human / Not Cited

International urology and nephrology (Oct 2004; 36: 141)
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Not Applicable / 1:200

Cancer medicine (Jun 2013; 2: 286)
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Human / 1:800

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Human / 1:400

Histopathology (Feb 2014; 64: 421)
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MA1-10202 was used in immunohistochemistry to study the developmental time course of Ki67, CD34 and p53 expression in human tooth buds

Human / 1:200

Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie (Apr 2015; 55: 43)
"Immunohistochemical study of Ki67, CD34 and p53 expression in human tooth buds."
Author(s):Muica Nagy-Bota MC,Pap Z,Denes L,Ghizdav A,Brînzaniuc K,Lup Coarc AS,Chibelean Cire-Mrginean M,Pcurar M,
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Human / 1:200

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Human / 1:800

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"Angiomatous spindle cell lipoma: Report of three cases with immunohistochemical and ultrastructural study and reappraisal of former 'pseudoangiomatous' variant."
Author(s):Zamecnik M,Michal M
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Mouse / Not Cited

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Human / 1:800

Virchows Archiv : an international journal of pathology (Jan 2007; 450: 119)
"Cotyledonoid dissecting leiomyoma of the uterus with intravascular growth: report of two cases."
Author(s):Shelekhova KV,Kazakov DV,Michal M
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**Author(s):** Jara-Lazzaro AR, Akhilesh M, Thike AA, Lui PC, Tse GM, Tan PH

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**Human / 1:250**

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**Human / Not Cited**

MA1-10202 was used in immunohistochemistry to report on a patient with collagenous fibroma.

**Yonsei medical journal** (Oct 2004; 45: 941)

"Collagenous fibroma (desmoplastic fibroblastoma)."

**Author(s):** Dagili M, Eryilmaz A, Acar A, Kulacoglu S, Akamsu H

**PubMed Article URL:** http://dx doi.org /10.3349/ymj. 2004. 45. 5.941

**Human / 1:400**

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"The prognostic impact of O6-methylguanine DNA methyltransferase and epidermal growth factor receptor expressions on primary gliosarcoma: a clinicopathologic and immunohistochemical study of seven cases at a single institution."

**Author(s):** Lin JW, Wu YT, Chang IW

**PubMed Article URL:** http://dx.doi.org/10.4103/0377-4929.91491

**Human / 1:50**

**Contraception** (Jun 2006; 73: 634)

"Endometrial histology, microvascular density and caliber, and matrix metalloproteinase-3 in users of the Nestorone-releasing contraceptive implant with and without endometrial breakthrough bleeding."

**Author(s):** Oliveira-Ribeiro M, Petta CA, De Angelo Andrade LA, Hidalgo MM, Pellogia A, Bahamondes L

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**Human / Not Cited**

MA1-10202 was used in immunohistochemistry to study the prognostic value of MGMT and EGFR expression in primary gliosarcoma.

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"Endothelial cells derived from human embryonic stem cells."

**Author(s):** Levenberg S, Golub JS, Amit M, Itskovitz-Eldor J, Langer R

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**Human / Not Cited**

MA1-10202 was used in immunohistochemistry to study the role of human embryonic stem cells forming vascular-like structures.


"Rhabdomyosarcoma arising in a mature cystic teratoma with contralateral serious carcinoma."

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**Human / Not Cited**

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"Renal angiomyoadenomatous tumor: morphologic, immunohistochemical, and molecular genetic study of a distinct entity."

**Author(s):** Michal M, Hes O, Nemcova J, Sima R, Kuroda N, Bulimbasic S, Franco M, Sakaida N, Danis D, Kazakov DV, Ohe C, Hora M

**PubMed Article URL:** http://dx.doi.org/10.1002/vir.20806

**Human / Not Cited**

MA1-10202 was used in immunohistochemistry to study the molecular and immunohistochemical features of renal angiomyoadenomatous tumor.

**International urology and nephrology (Mar 2010; 42: 103)**

"Evaluation of relationship between HIF-1alpha immunoreactivity and stage, grade, angiogenic profile and proliferative index in bladder urothelial carcinomas."

**Author(s):** Deniz H, Karakök M, Yagci F, Güldür ME

**PubMed Article URL:** http://dx.doi.org/10.1007/s11255-009-9590-5

MA1-10202 was used in immunohistochemistry to study the utility of (18)F-fluoro-2-deoxy-glucose uptake for predicting outcome of non-small-cell lung cancer

Human / 1:100

Chinese medical journal (Jan 2007; 120: 125)

"18F-FDG uptake as a biologic factor predicting outcome in patients with resected non-small-cell lung cancer."

Author(s): Zhang ZJ, Chen JH, Meng LD, Du JJ, Zhang L, Liu Y, Dai HH

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Human / Not Cited

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PubMed Article URL:http://dx.doi.org/10.1186/1471-2407-12-535

MA1-10202 was used in immunohistochemistry to study the correlation of magnetic resonance contrast enhancement with various vascular parameters using image-guided glioma biopsy specimens

Human / 1:400

Academic radiology (Aug 2011; 18: 955)

"Correlation of immunohistologic and perfusion vascular parameters with MR contrast enhancement using image-guided biopsy specimens in gliomas."

PubMed Article URL:http://dx.doi.org/10.1016/j.acra.2011.04.003

MA1-10202 was used in immunohistochemistry to find a prognostic indicator for patients with HCC after surgical resection by profiling CK19 and glypican 3 expression

Not Applicable / 1:100

PloS one (Jul 2016; 11:)

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PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0151501

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Human / 1:50

Human pathology (Jul 2007; 38: 1096)

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Human / Not Cited

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MA1-10202 was used in immunohistochemistry to investigate the effect of caveolin-1 on the progression of hepatocellular carcinoma and angiogenesis

Human / 1:100

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MA1-10202 was used in immunohistochemistry to report on two cases of dendritic cell sarcomas/tumours of the breast

Human / 1:400

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"Dendritic cell sarcomas/tumours of the breast: report of two cases."

Author(s): Kapucuoglu N, Percineli S, Ventura T, Lang R, Al-Daraji W, Eusebi V
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MA1-10202 was used in immunohistochemistry to study the role of peritubular capillary loss and altered expression of VEGF and HIF-1 in the progression of IgA nephropathy


MA1-10202 was used in immunohistochemistry to report on a case of left atrial cardiac myxoma with incidental atypical B-cell lymphoid proliferation


MA1-10202 was used in immunohistochemistry to evaluate a three-dimensional organ culture system for the isolation of adipose-derived stem cells


MA1-10202 was used in immunohistochemistry to investigate the relationship between the level of CD44/MMP-2 and histopathological characteristics in solitary fibrous tumors


MA1-10202 was used in immunohistochemistry to investigate the prognostic significance of VEGF receptor 2 copy number in non-small-cell lung carcinoma


MA1-10202 was used in immunohistochemistry to study the cellular origins of myoid cells in benign mammary stromal-epithelial lesions


MA1-10202 was used in immunohistochemistry to study HIF-1alpha expression and tumor cell proliferation in common non-small cell lung carcinomas

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Journal of neuropathology and experimental neurology (Mar 2003; 62: 315)
"Metallothionein-I overexpression decreases brain pathology in transgenic mice with astrocyte-targeted expression of interleukin-6."
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Human / Not Cited

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BJU international (Mar 2008; 101: 758)
"Relation of microvesSEL density with microvascular invasion, metastasis and prognosis in renal cell carcinoma."
Author(s): Yildiz E, Ayán S, Goze F, Gokce G, Gultekin EY
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Human / Not Cited

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Human / Not Cited

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Human / Not Cited

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Human / 1:50

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Human / 1:2000

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Human / 1:400

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Human / 1:1500

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Human / 1:200

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Human / Not Cited

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Human / 1:50

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Human / 1:400

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Human / 1:200

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Human / 1:400

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Human / 1:100

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Human / 1:1

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Human / 1:100

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Human / 1:200

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Human / 1:200

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6 Flow Cytometry References

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Summary

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Human / 1:500

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Species / Dilution Summary

Rabbit / 1:100

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Human / 1:50

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Human / 1:200

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Species / Dilution Summary

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