

MUC1 Monoclonal Antibody (E29)

Catalog NumberMA5-14077

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG2a, kappa	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:400-1:800
Clone	E29	Immunocytochemistry (ICC/IF)	1:100
Immunogen	Delipidated extract of human milk fat globule membranes	Published Applications	
Conjugate	Unconjugated	Immunohistochemistry (IHC)	See 15 publications below
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 2 publications below
Concentration	0.2 mg/mL	Neutralization (Neu)	See 1 publications below
Purification	Protein A	Immunocytochemistry (ICC/IF)	See 1 publications below
Storage buffer	PBS, pH 7.4, with 0.2% BSA	* 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.	
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Product specific information

MA5-14077 targets Epithelial Membrane Antigen in IHC (P) applications and shows reactivity with Human samples. The MA5-14077 immunogen is delipidated extract of human milk fat globule membranes.

Background/Target Information

MUC1 (Mucin 1, Episialin, MAM-6, CA 15-3, PEM and EMA) is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. MUC1 is a transmembrane glycoprotein with a large mucin-like extracellular domain that matures through several intermediate forms generated by proteolysis, and sequential addition and processing of numerous O-linked glycans that are heavily sialylated. MUC1 is highly polymorphic and each allele encodes a product that contains a different number of repeats (between 30 and 90) leading to large differences in molecular weight of the protein. MUC1 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells, and is expressed abundantly in >90% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. Overexpression, aberrant intracellular localization, and changes in glycosylation of the MUC1 protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of the MUC1 gene have been reported, but the full-length nature of only some has been determined. Transgenic MUC-1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands.

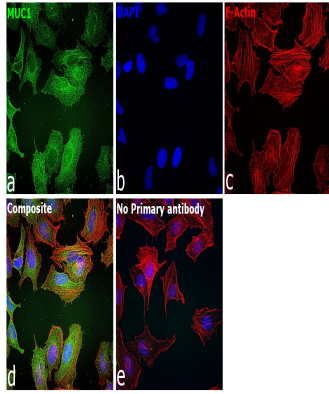
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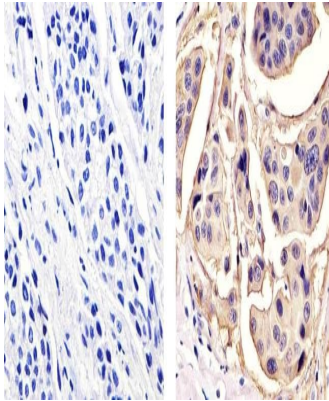
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Product Images For MUC1 Monoclonal Antibody (E29)



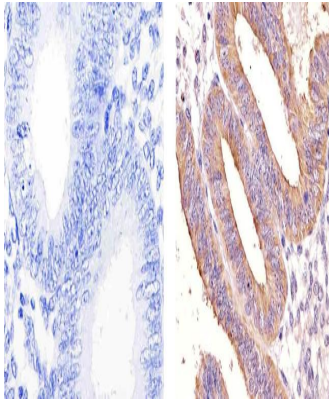
MUC1 Antibody (MA5-14077) in ICC/IF

Immunofluorescence analysis of MUC1 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with MUC1 Monoclonal Antibody (LH39) (Product # MA5-14077) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with Hoechst 33342 (Product # H1399). F-actin (Panel c: Red) was stained with Alexa Fluor™ 647 Phalloidin (Product #A22287, 1:300 dilution). Panel d represents the merged image showing cytoplasm localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al. / Methods 115 (2017) 28–41).



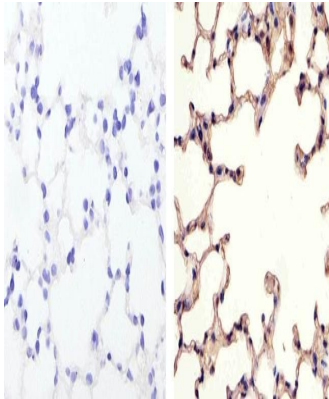
MUC1 Antibody (MA5-14077) in IHC (P)

Immunohistochemistry analysis of Mucin 1/MUC-1 (E29) showing staining in the membrane and weak cytoplasm of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Mucin 1/MUC-1 Antibody (E29) Mouse Monoclonal Antibody (Product # MA5-14077) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



MUC1 Antibody (MA5-14077) in IHC (P)

Immunohistochemistry analysis of Mucin 1/MUC-1 (E29) showing staining in the cytoplasm and membrane of paraffin-embedded human uterus tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Mucin 1/MUC-1 Antibody (E29) Mouse Monoclonal Antibody (Product # MA5-14077) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



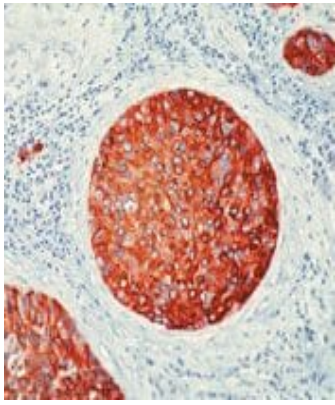
MUC1 Antibody (MA5-14077) in IHC (P)

Immunohistochemistry analysis of Mucin 1/MUC-1 (E29) showing staining in the cytoplasm and membrane of paraffin-embedded mouse lung tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Mucin 1/MUC-1 Antibody (E29) Mouse Monoclonal Antibody (Product # MA5-14077) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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MUC1 Antibody (MA5-14077) in IHC (P)
Formalin-fixed, paraffin-embedded human breast carcinoma stained with EMA antibody using peroxidase-conjugate and AEC chromogen. Note membrane and cytoplasmic staining of tumor cells.

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PubMed References For MUC1 Monoclonal Antibody (E29)

15 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	<p>MA5-14077 was used in immunohistochemistry to report a clinical case of dedifferentiated liposarcoma of the retroperitoneum with unique features</p> <p>Sarcoma (2011; 2008:) "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 PubMed Article URL:http://dx.doi.org/10.1155/2008/658090</p>
Human / 1:4800	<p>MA5-14077 was used in Immunohistochemistry to conclude that integrin v6 allows for the most robust discrimination of vulvar squamous cell carcinomas and adjacent premalignant lesions compared to surrounding healthy tissue.</p> <p>Cancers (2021; 13:) "Integrin v6 as a Target for Tumor-Specific Imaging of Vulvar Squamous Cell Carcinoma and Adjacent Premalignant Lesions." Author(s):Huisman BW,Cankat M,Bosse T,Vahrmeijer AL,Rissmann R,Burggraaf J,Sier CFM,van Poelgeest MIE PubMed Article URL:http://dx.doi.org/10.3390/cancers13236006</p>
Human / 1:200	<p>MA5-14077 was used in immunohistochemistry to report on a case of choroid plexus papilloma of the sacral nerve roots</p> <p>Journal of neurosurgery. Spine (2009; 10: 51) "Primary choroid plexus papilloma of the sacral nerve roots." Author(s):Boldorini R,Panzarasa G,Girardi P,Monga G PubMed Article URL:http://dx.doi.org/10.3171/2008.10.SPI08277</p>
Human / 1:50	<p>MA5-14077 was used in immunohistochemistry to investigate the prognostic value of mucin in the gastric carcinoma</p> <p>Digestive diseases and sciences (2004; 49: 954) "Prognostic significance of mucin expression in gastric carcinoma." Author(s):Kocer B,Soran A,Kiyak G,Erdogan S,Eroglu A,Bozkurt B,Solak C,Cengiz O PubMed Article URL:http://dx.doi.org/10.1023/b:ddas.0000034554.96191.66</p>
Human / 1:400	<p>MA5-14077 was used in immunohistochemistry to report on five cases of anaplastic large cell lymphoma with paraneoplastic leukocytosis</p> <p>APMIS : acta pathologica, microbiologica, et immunologica Scandinavica (2011; 119: 794) "Anaplastic large cell lymphoma with paraneoplastic leukocytosis: a clinicopathological analysis of five cases." Author(s):Chang IW,Chen HK,Ma MC,Huang WT PubMed Article URL:http://dx.doi.org/10.1111/j.1600-0463.2011.02811.x</p>
Human / Not Cited	<p>MA5-14077 was used in immunohistochemistry to report on a patient with collagenous fibroma</p> <p>Yonsei medical journal (2004; 45: 941) "Collagenous fibroma (desmoplastic fibroblastoma)." Author(s):Dagli M,Eryilmaz A,Acar A,Kulacoglu S,Akmansu H PubMed Article URL:http://dx.doi.org/10.3349/ymj.2004.45.5.941</p>
Human / 1:20	<p>MA5-14077 was used in immunohistochemistry to report a clinical case of solitary fibrous tumour in the cerebellopontine angle</p> <p>Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia (2005; 12: 829) "Recurrent solitary fibrous tumour in the cerebellopontine angle." Author(s):Bikmaz K,Cosar M,Kurtkaya-Yapicier O,Iplikcioglu AC,Gokduman CA PubMed Article URL:http://dx.doi.org/10.1016/j.jocn.2004.10.009</p>
Human / 1:200	<p>MA5-14077 was used in immunohistochemistry to report on a case of pancreatic mucinous cystic tumor in a patient with Turner syndrome</p> <p>International journal of surgery case reports (2013; 4: 1028) "Pancreatic mucinous cystic tumor in Turner syndrome: How a tumor bends to a genetic disease." Author(s):Pizzi M,Pennelli G,Merante-Boschin I,Fassan M,Pelizzo MR,Rugge M PubMed Article URL:http://dx.doi.org/10.1016/j.ijscr.2013.09.003</p>
Human / 1:50	<p>MA5-14077 was used in immunohistochemistry to study the effect of Helicobacter pylori on gastric mucin expression</p> <p>Journal of clinical gastroenterology (2004; 38: 496) "A confirmatory report for the close interaction of Helicobacter pylori with gastric epithelial MUC5AC expression." Author(s):Kocer B,Ulas M,Ustundag Y,Erdogan S,Karabeyoglu M,Yldrm O,Unal B,Cengiz O,Soran A PubMed Article URL:http://dx.doi.org/10.1097/01.mcg.0000123168.86324.1b</p>

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	MA5-14077 was used in immunohistochemistry to report on a case of giant cell carcinoma of the larynx
Human / Not Cited	Auris, nasus, larynx (2007; 34: 413) "An immunohistochemical profile of giant cell carcinoma of the larynx." Author(s):Gurbuz Y,Kose N,Aydin O,Ozturk M PubMed Article URL: http://dx.doi.org/10.1016/j.anl.2007.01.011
	MA5-14077 was used in immunohistochemistry to report the case of primary acinic cell carcinoma of the breast in a 38-year-old woman.
Human / Not Cited	International journal of surgical pathology (2014; 22: 177) "Primary acinic cell carcinoma of the breast: a case report and review of the literature." Author(s):Zhao Y,Li W,Lang R,Yang Y,Gao X,Zheng Y,Zhang C,Fu X,Fu L PubMed Article URL: http://dx.doi.org/10.1177/1066896913483898
	MA5-14077 was used in immunohistochemistry to evaluate the major prognostic factors for posterior fossa ependymomas
Human / 1:30	Acta neurochirurgica (2009; 151: 947) "Infratentorial ependymomas: prognostic factors and outcome analysis in a multi-center retrospective series of 106 adult patients." Author(s):Guyotat J,Metellus P,Giorgi R,Barrie M,Jouvet A,Fevre-Montange M,Chinot O,Durand A,Figarella-Branger D PubMed Article URL: http://dx.doi.org/10.1007/s00701-009-0417-z
	MA5-14077 was used in immunohistochemistry to report on a case of sporadic haemangioblastoma of the kidney with rhabdoid features and focal CD10 expression
Human / 1:500	Diagnostic pathology (2012; 7:) "Sporadic haemangioblastoma of the kidney with rhabdoid features and focal CD10 expression: report of a case and literature review." Author(s):Yin WH,Li J,Chan JK PubMed Article URL: http://dx.doi.org/10.1186/1746-1596-7-39
	MA5-14077 was used in immunohistochemistry to study the precise cellular origin of syringoma
Human / 1:200	International journal of dermatology (2012; 51: 817) "An immunohistochemical study of the origin of the solid strand in syringoma, using carcinoembryonic antigen, epithelial membrane antigen, and cytokeratin 5." Author(s):Kim BC,Park EJ,Kwon IH,Cho HJ,Park HR,Kim KH,Kim KJ PubMed Article URL: http://dx.doi.org/10.1111/j.1365-4632.2011.05069.x
	MA5-14077 was used in immunohistochemistry to study the morphological and immunohistochemical features of atypical teratoid/rhabdoid tumors
Human / 1:100	Neuropathology : official journal of the Japanese Society of Neuropathology (2011; 31: 461) "Atypical teratoid/rhabdoid tumors may show morphological and immunohistochemical features seen in choroid plexus tumors." Author(s):Schittenhelm J,Nagel C,Meyermann R,Beschorner R PubMed Article URL: http://dx.doi.org/10.1111/j.1440-1789.2010.01189.x

2 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	MA514077 was used in immunohistochemistry - paraffin section to characterize cases of oncocytic papillary renal cell carcinoma
Human / 1:50	Pathology, research and practice (2017; 213: 1) "Oncocytic papillary renal cell carcinoma: A clinicopathological and genetic analysis and indolent clinical course in 14 cases." Author(s):Han G,Yu W,Chu J,Liu Y,Jiang Y,Li Y,Zhang W PubMed Article URL: http://dx.doi.org/10.1016/j.prp.2016.04.009
	MA5-14077 was used in immunohistochemistry - paraffin section to report the clinicopathological features of 9 breast malignant fibrous histiocytoma patients
Not Applicable / 1:200	Scientific reports (2014; 3:) "Diagnostic and therapeutic strategy and the most efficient prognostic factors of breast malignant fibrous histiocytoma." Author(s):Qiu SQ,Wei XL,Huang WH,Wu MY,Qin YS,Li YK,Zhang GJ PubMed Article URL: http://dx.doi.org/10.1038/srep02529

1 Neutralization References

Species / Dilution	Summary
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	MA5-14077 was used in blocking or activating experiment to study the mechanism underlying the anti-tumor effects of an anti-KL-6/MUC1 monoclonal antibody
Human / 5 µg/mL	<p>Cancer science (2006; 97: 420)</p> <p>"Anti-tumor effect of the anti-KL-6/MUC1 monoclonal antibody through exposure of surface molecules by MUC1 capping."</p> <p>Author(s):Doi M,Yokoyama A,Kondo K,Ohnishi H,Ishikawa N,Hattori N,Kohno N</p> <p>PubMed Article URL:http://dx.doi.org/10.1111/j.1349-7006.2006.00183.x</p>
1 Immunocytochemistry References	
Species / Dilution	Summary
	MA5-14077 was used in Immunohistochemistry to show that membrane-associated mucins are produced in both parotid and submandibular glands and that they are expressed in different cell types than gel-forming mucins.
Human / Not Cited	<p>The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society (2002; 50: 811)</p> <p>"Expression of membrane-associated mucins MUC1 and MUC4 in major human salivary glands."</p> <p>Author(s):Liu B,Lague JR,Nunes DP,Toselli P,Oppenheim FG,Soares RV,Troxler RF,Offner GD</p> <p>PubMed Article URL:http://dx.doi.org/10.1177/002215540205000607</p>

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