

MUC1 Monoclonal Antibody (E29)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	E29
Conjugate	Unconjugated
Immunogen	Delipidated extract of human milk fat globule membranes
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10985258

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:400-1:800	2 Publications
Immunocytochemistry (ICC/IF)	1:100	1 Publication
Neutralization (Neu)	-	1 Publication

Product Specific Information

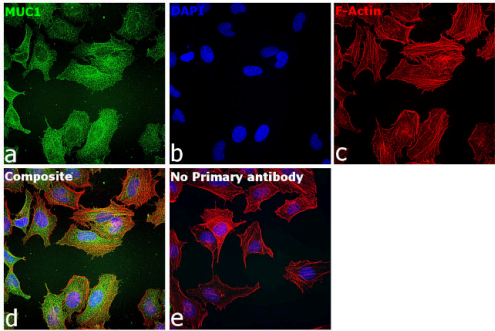
MA5-14077 targets Epithelial Membrane Antigen in IHC (P) applications and shows reactivity with Human samples.

The MA5-14077 immunogen is delipidated extract of human milk fat globule membranes.

Product Images For MUC1 Monoclonal Antibody (E29)

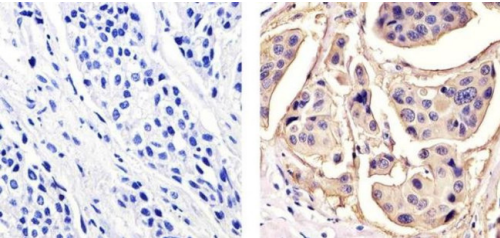
MUC1 Antibody (MA5-14077) in ICC/IF

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).



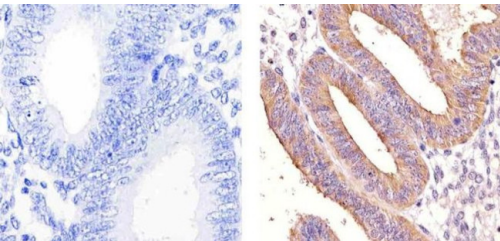
MUC1 Antibody (MA5-14077) in IHC (P)

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.



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Immunohistochemistry (15)

<p>Cancers</p> <p>Integrin v6 as a Target for Tumor-Specific Imaging of Vulvar Squamous Cell Carcinoma and Adjacent Premalignant Lesions.</p> <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>Authors: Huisman BW,Cankat M,Bosse T,Vahrmeijer AL,Rissmann R,Burggraaf J,Sier CFM,van Poelgeest MIE</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:4800</p>
<p>International journal of surgical pathology</p> <p>Primary acinic cell carcinoma of the breast: a case report and review of the literature.</p> <p>"MA5-14077 was used in immunohistochemistry to report the case of primary acinic cell carcinoma of the breast in a 38-year-old woman."</p> <p>Authors: Zhao Y,Li W,Lang R,Yang Y,Gao X,Zheng Y,Zhang C,Fu X,Fu L</p>	<p>Year 2014</p> <p>Species Human</p>

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Immunohistochemistry (Paraffin) (2)

<p>Pathology, research and practice</p> <p>Oncocytic papillary renal cell carcinoma: A clinicopathological and genetic analysis and indolent clinical course in 14 cases.</p> <p>"MA514077 was used in immunohistochemistry - paraffin section to characterize cases of oncocytic papillary renal cell carcinoma"</p> <p>Authors: Han G,Yu W,Chu J,Liu Y,Jiang Y,Li Y,Zhang W</p>	<p>Year 2017</p> <p>Species Human</p> <p>Dilution 1:50</p>
<p>Scientific reports</p> <p>Diagnostic and therapeutic strategy and the most efficient prognostic factors of breast malignant fibrous histiocytoma.</p> <p>"MA5-14077 was used in immunohistochemistry - paraffin section to report the clinicopathological features of 9 breast malignant fibrous histiocytoma patients"</p> <p>Authors: Qiu SQ,Wei XL,Huang WH,Wu MY,Qin YS,Li YK,Zhang GJ</p>	<p>Year 2014</p> <p>Dilution 1:200</p>

More applications with references on thermofisher.com

- ICC/IF (1)
- Neu (1)

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