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

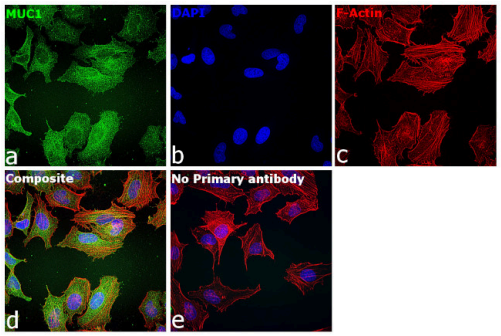
Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:400-1:800	2 Publications
Immunocytochemistry (ICC/IF)	1:100	1 Publication
Neutralization (Neu)	-	1 Publication

Product Specific Information

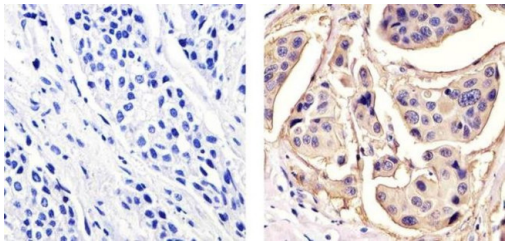
MA5-14077 targets Epithelial Membrane Antigen in IHC (P) applications and shows reactivity with Human samples.

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

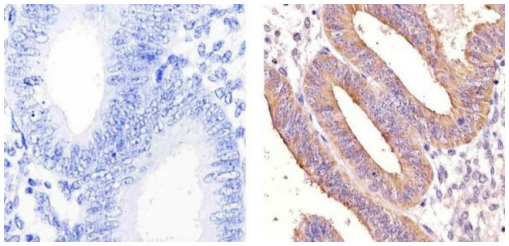
Product Images For MUC1 Monoclonal Antibody (E29)



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.

View more figures on thermofisher.com

19 References

Immunohistochemistry (15)

Cancers

Integrin v6 as a Target for Tumor-Specific Imaging of Vulvar Squamous Cell Carcinoma and Adjacent Premalignant Lesions.

"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."

Authors: Huisman BW,Cankat M,Bosse T,Vahrmeijer AL,Rissmann R,Burggraaf J,Sier CFM,van Poelgeest MIE

Year 2021

Species Human

Dilution 1:4800

International journal of surgical pathology

Primary acinic cell carcinoma of the breast: a case report and review of the literature.

"MA5-14077 was used in immunohistochemistry to report the case of primary acinic cell carcinoma of the breast in a 38-year-old woman."

Authors: Zhao Y,Li W,Lang R,Yang Y,Gao X,Zheng Y,Zhang C,Fu X,Fu L

Year 2014

Species Human

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

Pathology, research and practice

Oncocytic papillary renal cell carcinoma: A clinicopathological and genetic analysis and indolent clinical course in 14 cases.

"MA514077 was used in immunohistochemistry - paraffin section to characterize cases of oncocytic papillary renal cell carcinoma"

Authors: Han G,Yu W,Chu J,Liu Y,Jiang Y,Li Y,Zhang W

Year 2017

Species Human

Dilution 1:50

Scientific reports

Diagnostic and therapeutic strategy and the most efficient prognostic factors of breast malignant fibrous histiocytoma.

"MA5-14077 was used in immunohistochemistry - paraffin section to report the clinicopathological features of 9 breast malignant fibrous histiocytoma patients"

Authors: Qiu SQ,Wei XL,Huang WH,Wu MY,Qin YS,Li YK,Zhang GJ

Year 2014

Dilution 1:200

More applications with references on thermofisher.com

ICC/IF (1) **Neu (1)**