abcam

ab28081

Anti-MUC1 antibody [C595 (NCRC48)]

Key facts

Isotype	IgG3
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Native Full Length Protein corresponding to Human MUC1. Database link P15941
Clone number	C595 (NCRC48)
Purification technique	Affinity purification Protein G
Specificity	ab28081 recognises the breast cancer associated mucin encoded by the Muc-1 gene, CD227. In normal tissues expression is restricted to specialised glandular epithelial cells.
Epitope	ab28081 recognises the peptide epitope ARG-PRO-ALA-PRO within the protein core of the mucin.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Human

Dilution info	-
Notes	ab91537 - Mouse monoclonal IgG3, is suitable for use as an isotype control with this antibody.

ELISA

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

AP

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information MUC1

Function	The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack. The beta subunit contains a C-terminal domain which is involved in cell signaling, through phosphorylations and protein-protein interactions. Modulates signaling in ERK, SRC and NF-kappa-B pathways. In activated T-cells, influences directly or indirectly the Ras/MAPK pathway. Promotes tumor progression. Regulates TP53-mediated transcription and determines cell fate in the genotoxic stress response. Binds, together with KLF4, the PE21 promoter element of TP53 and represses TP53 activity.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

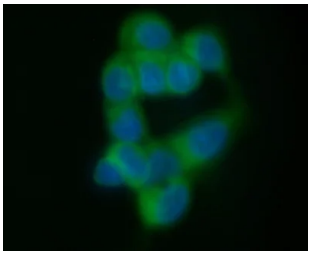
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Terms & Conditions.

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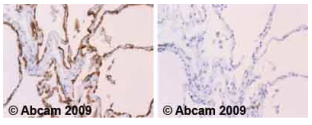
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-MUC1 antibody [C595 (NCRC48)] (ab28081)

MUC1 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-MUC1 antibody

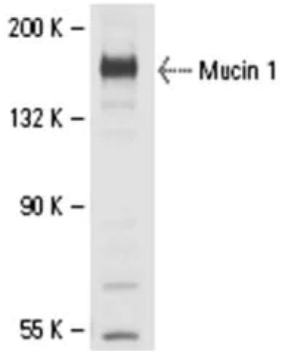
FITC-conjugated ab28081 staining MUC1 in MCF-7 cells (green). Nuclei are counterstained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC1 antibody [C595 (NCRC48)] (ab28081)

ab28081 staining human normal lung. Staining is localised to the apical cell membrane.
Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.
Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please

note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be requir



Western blot - Anti-MUC1 antibody [C595 (NCRC48)] (ab28081)

All lanes:
Western blot - Anti-MUC1 antibody [C595 (NCRC48)] (ab28081)

All lanes:
Whole cell lysate prepared from human BT20 cells

Predicted band size: 122 kDa

Observed band size: 170 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.