abcam

Product datasheet

Anti-MUC13 antibody ab65109

★★★★★ **2 Abreviews**   **5 References**   4 Images

Overview

Product name	Anti-MUC13 antibody
Description	Rabbit polyclonal to MUC13
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide (Human) from an internal sequence.
Positive control	WB: Extracts from COLO, 293 and HeLa cells. IHC-P: Human colon carcinoma tissue. IF: HepG2 cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab65109 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).
ICC/IF		1/500 - 1/1000.

Target

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Function	Epithelial and hemopoietic transmembrane mucin that may play a role in cell signaling.
Tissue specificity	Highly expressed in epithelial tissues, particularly those of the gastrointestinal and respiratory tracts, such as large intestine and trachea, followed by kidney, small intestine, appendix and stomach.
Sequence similarities	Contains 3 EGF-like domains. Contains 1 SEA domain.
Post-translational modifications	Cleaved into two subunits, alpha and beta, probably between the first EGF domain and the SEA domain. Beta subunit contains the cytoplasmic tail and alpha subunit the extracellular tail. The homo-oligomerization into dimers is dependent on intrachain disulfide bonds. Highly N-glycosylated.
Cellular localization	Cell membrane. Secreted. Also exists as a soluble form.

Images
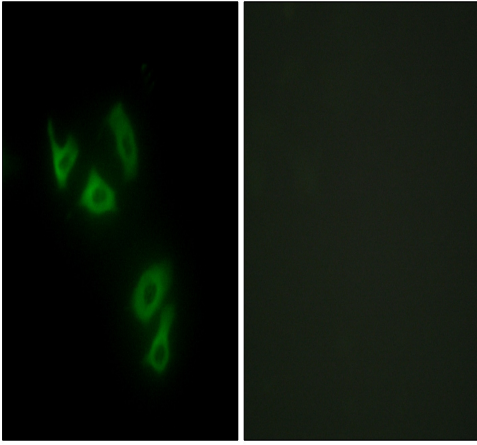
Immunocytochemistry/ Immunofluorescence - Anti-MUC13 antibody (ab65109)

Immunofluorescence analysis of HepG2 cells, using MUC13 antibody. The picture on the right is blocked with synthesized peptide.
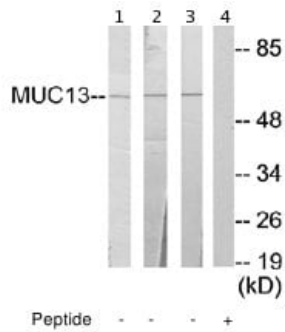
Western blot - Anti-MUC13 antibody (ab65109)

All lanes : Anti-MUC13 antibody (ab65109) at 1/500 dilution

Lane 1 : extracts from COLO cells
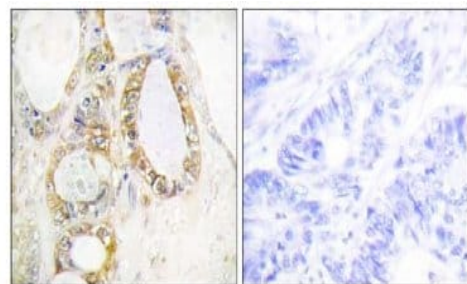**Lane 2 :** extracts from 293 cells
Lane 3 : extracts from HeLa cells
Lane 4 : extracts from HeLa cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 55 kDa
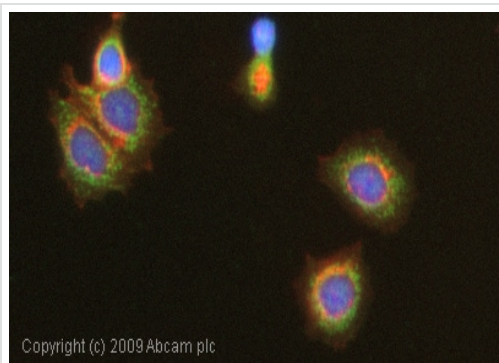**Observed band size:** 55 kDa

Secondary antibody - **anti-rabbit HRP (ab6721)**

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC13 antibody (ab65109)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue labelling MUC13 with ab65109.
The picture on the right is blocked with the synthesized peptide.

Immunocytochemistry/ Immunofluorescence - Anti-MUC13 antibody (ab65109)

ICC/IF image of ab65109 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab65109, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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