

Product datasheet

Anti-MUC16 antibody [EPSISR23] ab134093

Recombinant RabMAb

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Overview

Product name	Anti-MUC16 antibody [EPSISR23]
Description	Rabbit monoclonal [EPSISR23] to MUC16
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra) Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human MUC16 aa 12450-12550. Database link: Q8WX17 (Peptide available as ab139976)
Positive control	ICC/IF: NIH:OVCAR-3 cells. Flow Cyt: HeLa cells. WB: NIH:OVCAR-3 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPSISR23
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab134093 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

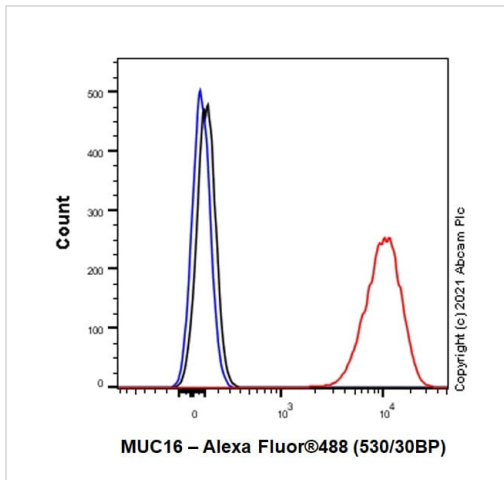
Application	Abreviews	Notes
WB		1/10000. Detects a band of approximately 2353 kDa (predicted molecular weight: 1519 kDa). Can be blocked with MUC16 peptide (ab139976) . For unpurified use at 1/10000 - 1/50000 dilution.
ICC/IF		1/50. For unpurified use at 1/100 - 1/250 dilution.
Flow Cyt (Intra)		1/20. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100 - 1/1000 dilution.

Application notes Is unsuitable for IHC-P or IP.

Target

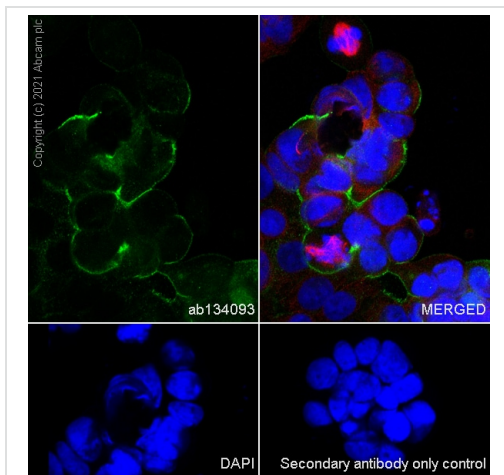
Function	Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces.
Tissue specificity	Expressed in corneal and conjunctival epithelia (at protein level). Overexpressed in ovarian carcinomas and ovarian low malignant potential (LMP) tumors as compared to the expression in normal ovarian tissue and ovarian adenomas.
Sequence similarities	Contains 2 ANK repeats. Contains 56 SEA domains.
Domain	Composed of three domains, a Ser-, Thr-rich N-terminal domain, a repeated domain containing more than 60 partially conserved tandem repeats of 156 amino acids each (AAs 12061-21862) and a C-terminal transmembrane domain with a short cytoplasmic tail.
Post-translational modifications	Heavily O-glycosylated; expresses both type 1 and type 2 core glycans. Heavily N-glycosylated; expresses primarily high mannose and complex bisecting type N-linked glycans. May be phosphorylated. Phosphorylation of the intracellular C-terminal domain may induce proteolytic cleavage and the liberation of the extracellular domain into the extracellular space. May contain numerous disulfide bridges. Association of several molecules of the secreted form may occur through interchain disulfide bridges providing an extraordinarily large gel-like matrix in the extracellular space or in the lumen of secretory ducts.
Cellular localization	Cell membrane. Secreted > extracellular space. May be liberated into the extracellular space following the phosphorylation of the intracellular C-terminus which induces the proteolytic cleavage

Images



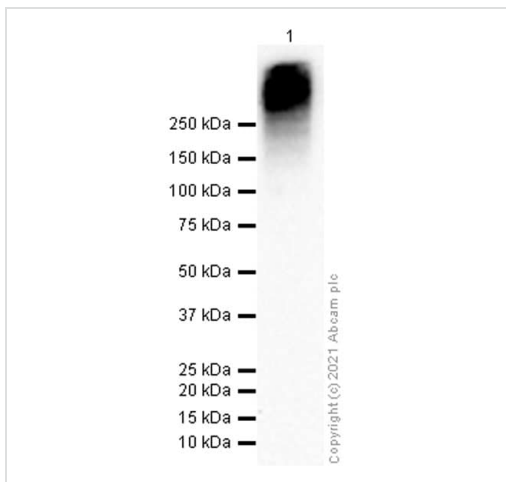
Flow Cytometry (Intracellular) - Anti-MUC16 antibody [EPSISR23] (ab134093)

Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling MUC16 with Purified ab134093 at 1:20 dilution (5 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-MUC16 antibody [EPSISR23] (ab134093)

Immunocytochemistry analysis of NIH:OVCAR-3 (Human ovary adenocarcinoma epithelial cell) cells labeling MUC16 with Purified ab134093 at 1:50 dilution (2.3 µg/ml). Cells were fixed in 100% Methanol and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Western blot - Anti-MUC16 antibody [EPSISR23] (ab134093)

Anti-MUC16 antibody [EPSISR23] (ab134093) at 1/10000 dilution + NIH:OVCAR-3 (Human ovary adenocarcinoma epithelial cell) whole cell lysate at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution





Predicted band size: 1519 kDa

Observed band size: 2353 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Image produced using the purified version.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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