

Product datasheet

Anti-MUC16 antibody [EPR1020(2)] ab110640

Recombinant RabMAb

★★★★☆ [3 Abreviews](#) [6 References](#) [14 Images](#)

Overview

Product name	Anti-MUC16 antibody [EPR1020(2)]
Description	Rabbit monoclonal [EPR1020(2)] to MUC16
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human uterus cell lysate. IHC-P: Human serous carcinoma and mucinous carcinoma tissues. ICC/IF: SK-OV-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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR1020(2)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110640 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		1/1000 - 1/10000. Predicted molecular weight: 1519 kDa.
IHC-P	★★★★★ (3)	1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250.

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.

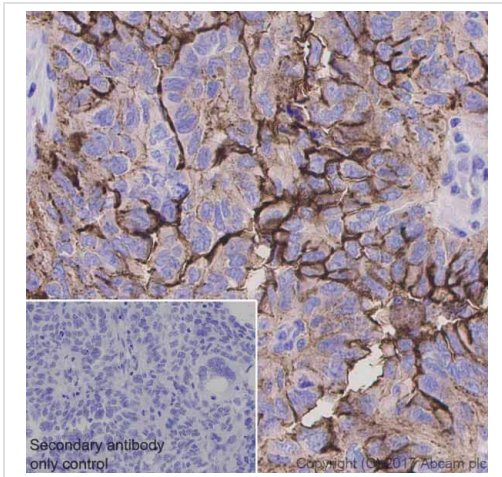
Sequence similarities Contains 2 ANK repeats.
Contains 56 SEA domains.

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 contain 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.

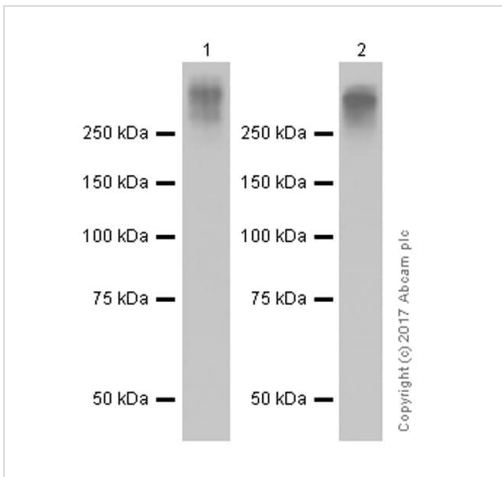
Cellular localization Cell membrane. Secreted > extracellular space. May be liberated into the extracellular space following the phosphorylation of the intracellular C-terminus which induces the proteolytic cleavage and liberation of the extracellular domain.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovarian serous papillary carcinoma tissue sections labeling MUC16 with Purified ab110640 at 1:1000 dilution (0.12 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

All lanes : Anti-MUC16 antibody [EPR1020(2)] (ab110640) at 1/20000 dilution (purified)

Lane 1 : Human uterus lysates

Lane 2 : OVCAR-3 (Human ovary adenocarcinoma epithelial cell) whole cell lysates

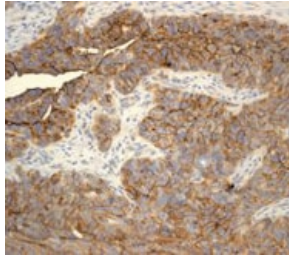
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 1519 kDa

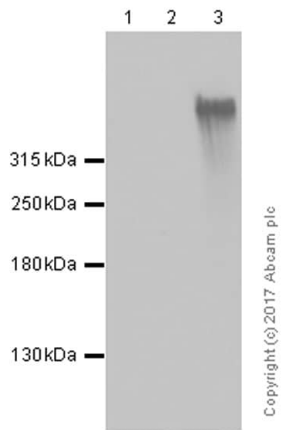
Blocking and diluting buffer: 5% NFDN/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 at 1/100 dilution staining MUC16 in Human serous carcinoma by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

All lanes : Anti-MUC16 antibody [EPR1020(2)] (ab110640) at 1/10000 dilution (purified)

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : SK-OV-3 (Human ovarian cancer epithelial cell) whole cell lysates

Lane 3 : OVCAR-3 (Human ovary adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 15 µg per lane.

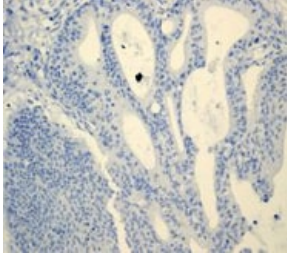
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 1519 kDa

Blocking and diluting buffer: 5% NFDN/TBST

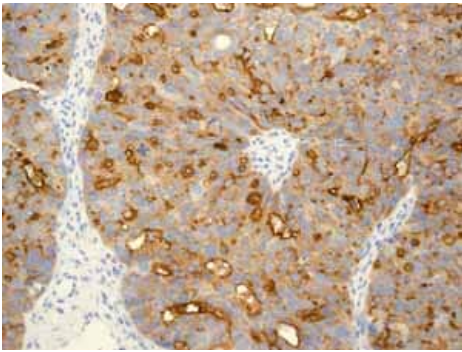
According to PMID: 26918940 and PMID: 19747716, MCF7 and SK-OV-3 cells are MUC16 negative cell lines



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 at 1/100 dilution staining MUC16 in Human mucinous carcinoma by Immunohistochemistry, Paraffin-embedded tissue.

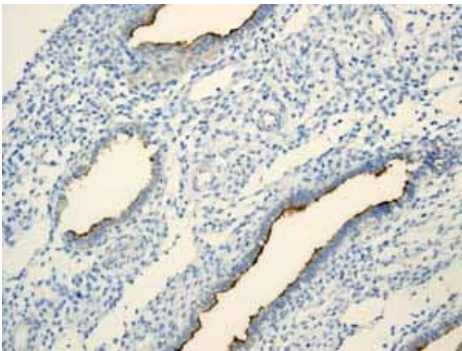
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing positive staining in Serous ovarian carcinoma tissue.

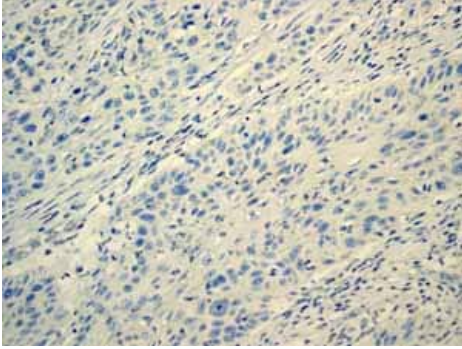
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing positive staining in Normal uterus tissue.

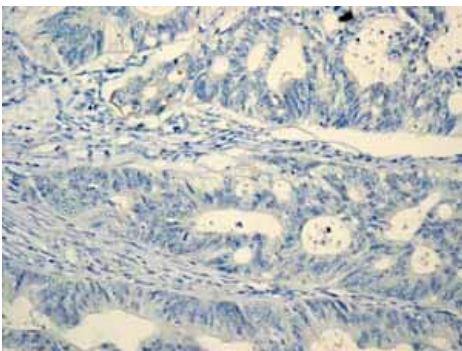
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing negative staining in Cervical carcinoma tissue.

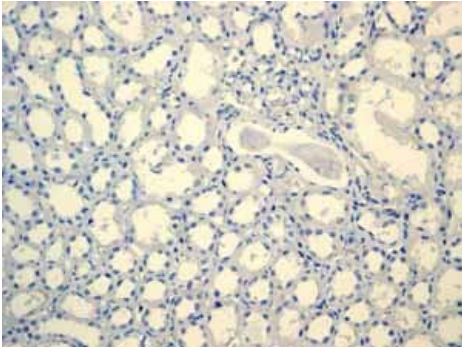
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing negative staining in Colonic adenocarcinoma tissue.

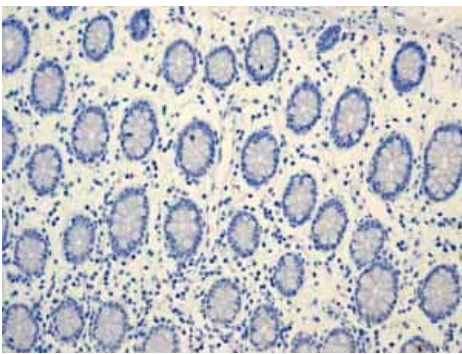
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing negative staining in Normal kidney tissue.

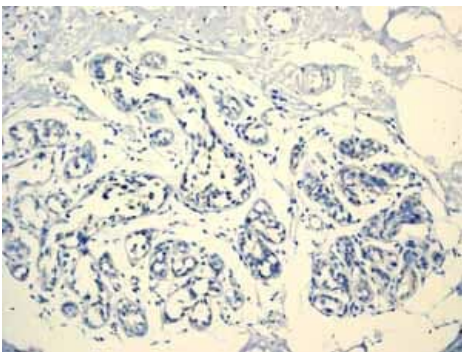
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing negative staining in Normal colon tissue.

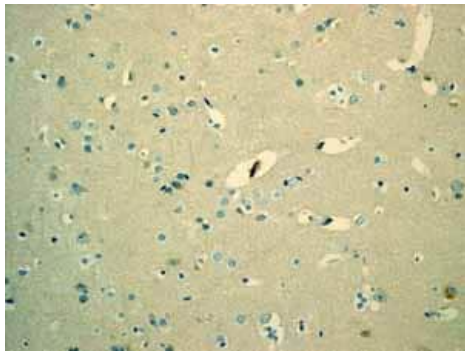
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Unpurified ab110640 showing negative staining in Normal breast tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Unpurified ab110640 showing negative staining in Normal brain tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC16 antibody [EPR1020(2)] (ab110640)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-MUC16 antibody [EPR1020(2)] (ab110640)

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

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