

Anti-MUC2 antibody [EPR6145] ab134119

重组 RabMAb

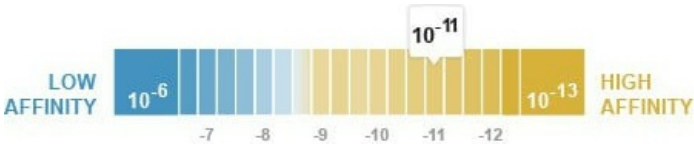
★★★★★ 1 Abreviews 17 References 12 图像

概述

产品名称	Anti-MUC2抗体[EPR6145]
描述	兔单克隆抗体[EPR6145] to MUC2
宿主	Rabbit
经测试应用	适用于: Indirect ELISA, WB, IHC-P 不适用于: IP
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Caco2, SKBR3, HT1376, SH SY5Y and SK OV3 cell lysates and human small intestine and colon lysates. IHC-P: Human colon tissue.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K _D)	K _D = 4.30 x 10 ⁻¹¹ M



[Learn more about K_D](#)

存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR6145
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab134119于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Indirect ELISA		Use a concentration of 1 µg/ml.
WB		1/1000 - 1/10000. Detects a band of approximately 110, 540 kDa (predicted molecular weight: 540 kDa).
IHC-P		1/15000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Or perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). See IHC antigen retrieval protocols. For unpurified use at 1/250-1/500.

应用说明 Is unsuitable for IP.

靶标

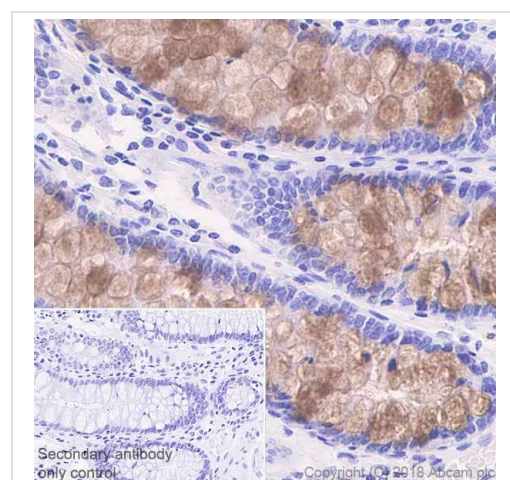
功能	Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.
组织特异性	Colon, small intestine, colonic tumors, bronchus, cervix and gall bladder.
序列相似性	Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 TIL (trypsin inhibitory-like) domain. Contains 2 VWFC domains. Contains 4 VWFD domains.
翻译后修饰	O-glycosylated. May undergo proteolytic cleavage in the outer mucus layer of the colon, contributing to the expanded volume and loose nature of this layer which allows for bacterial colonization in contrast to the inner mucus layer which is dense and devoid of bacteria. At low pH of 6 and under, undergoes autocatalytic cleavage in vitro in the N-terminal region of the fourth VWD domain. It is likely that this also occurs in vivo and is triggered by the low pH of the

细胞定位

late secretory pathway.

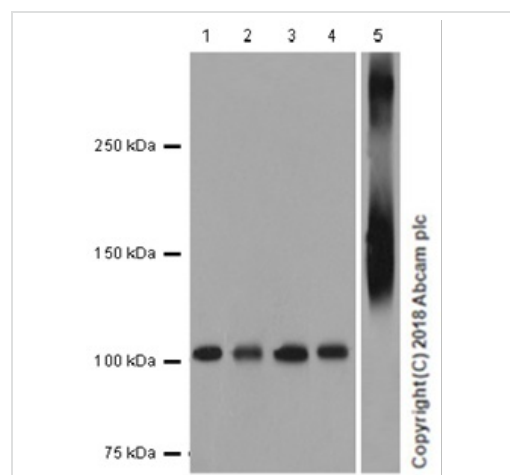
Secreted. In the intestine, secreted into the inner and outer mucus layers.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [EPR6145] (ab134119)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue sections labeling MUC2 with purified ab134119 at 1/15,000 dilution (0.01 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-MUC2 antibody [EPR6145] (ab134119)

All lanes : Anti-MUC2 antibody [EPR6145] (ab134119) at 1/2000 dilution ((unpurified))

Lane 1 : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : SK-BR-3 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 3 : HT-1376 (Human urinary bladder carcinoma epithelial cell) whole cell lysate

Lane 4 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate

Lane 5 : Human small intestine tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 540 kDa

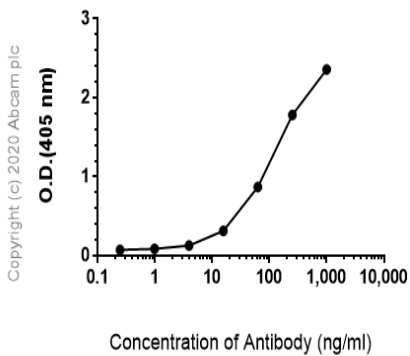
Observed band size: 110 kDa

Exposure time: 3 minutes

The 110kda band is the C-terminal cleaved fragment, formed by an autocatalytic mechanism triggered by low pH. (PMID: 12582180).

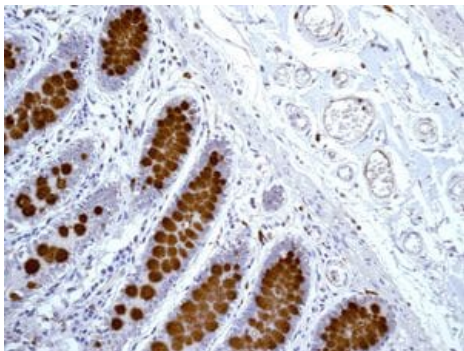
Blocking/Dilution buffer: 5% NFDM/TBST.

**Indirect ELISA antibody dose-response curve
antigen at 1000 ng/ml**



Indirect ELISA - Anti-MUC2 antibody [EPR6145]
(ab134119)

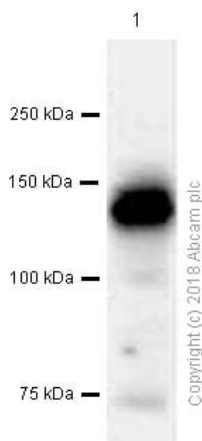
Indirect ELISA using ab134119 at varying antibody concentrations (1000-0 ng/mL) and MUC2 antigen at 1000 ng/mL. Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as a secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-MUC2 antibody
[EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded Human colon tissue labelling MUC2 with unpurified ab134119 at 1/250.

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



Western blot - Anti-MUC2 antibody [EPR6145]
(ab134119)

Anti-MUC2 antibody [EPR6145] (ab134119) at 1/10000 dilution
(Purified) + Human colon lysates at 15 µg

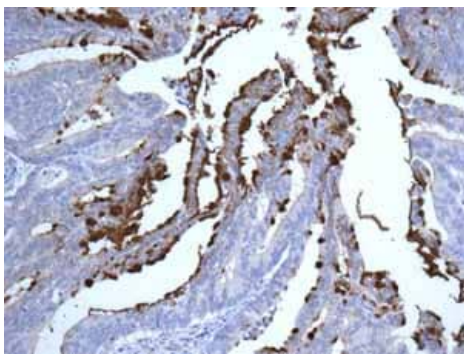
Secondary

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

Predicted band size: 540 kDa

Observed band size: 130 kDa

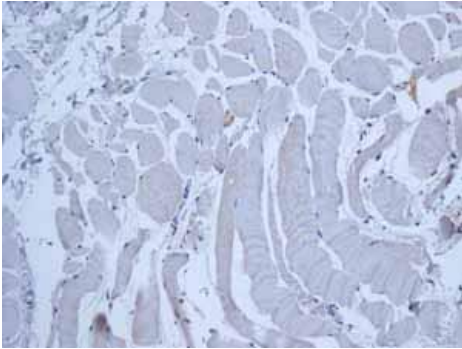
MUC2 could be cleaved into three fragments with the molecular weight 250, 130 and 110 KD as is described in PMID: 12582180.



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-MUC2 antibody
[EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded Human
Colonic adenocarcinoma tissue using unpurified ab134119
showing +ve staining.

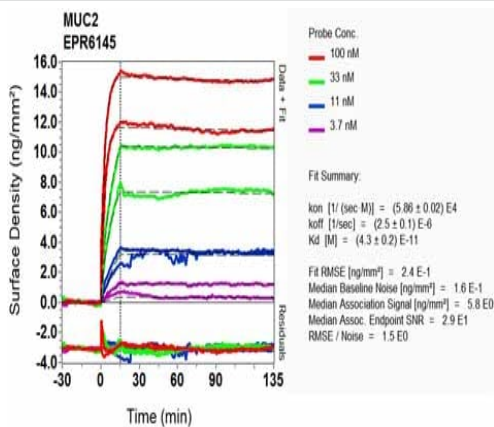
Perform heat mediated antigen retrieval with citrate buffer pH 6
before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded Human Skeletal muscle tissue using unpurified ab134119 showing -ve staining.

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

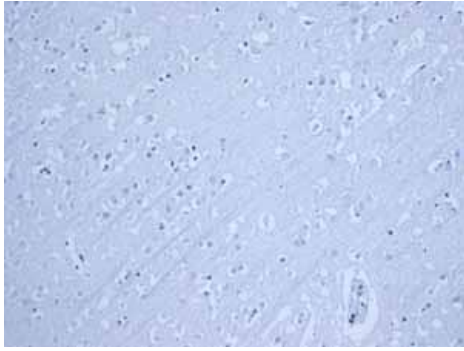


OI-RD Scanning - Anti-MUC2 antibody [EPR6145] (ab134119)

Equilibrium disassociation constant (K_D)

Learn more about K_D

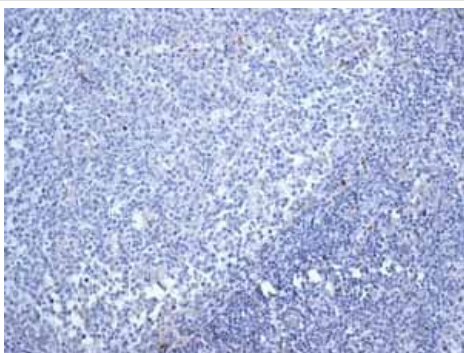
[Click here to learn more about \$K_D\$](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded normal Human brain tissue using unpurified ab134119 showing -ve staining.

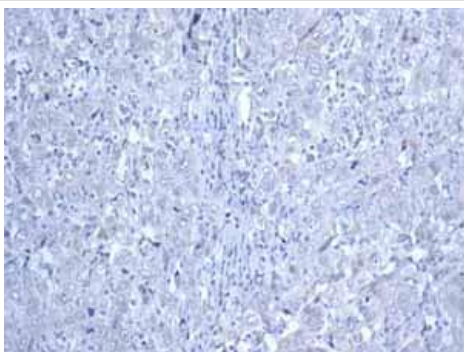
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded normal Human tonsil tissue using unpurified ab134119 showing -ve staining.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUC2 antibody [EPR6145] (ab134119)

Immunohistochemical analysis of paraffin embedded Human Breast carcinoma tissue using unpurified ab134119 showing -ve staining.

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

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-MUC2 antibody [EPR6145] (ab134119)

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