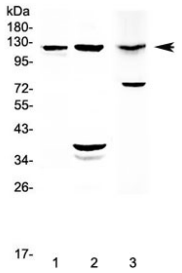
MUC1 Antibody (RQ4004)

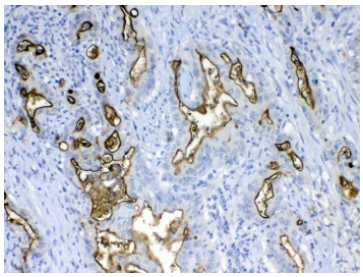
Catalog No.	Formulation	Size
RQ4004	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

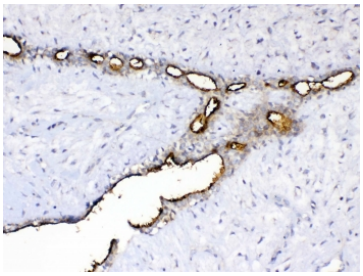
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P15941
Localization	Cytoplasmic, membranous
Applications	Western Blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This MUC1 antibody is available for research use only.



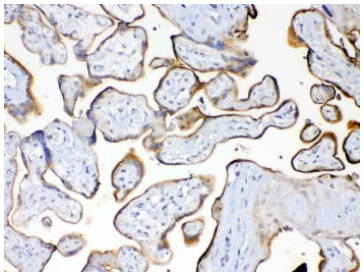
Western blot testing of 1) rat lung, 2) rat pancreas and 3) mouse pancreas with MUC1 antibody at 0.5ug/ml. Expected molecular weight: 120-500 kDa depending on glycosylation level.



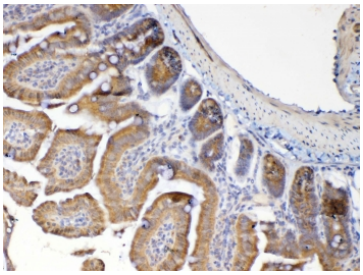
IHC testing of FFPE human colon cancer tissue with MUC1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



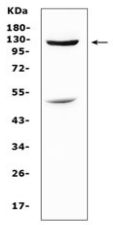
IHC testing of FFPE human breast cancer tissue with MUC1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE human placental tissue with MUC1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE mouse small intestine tissue with MUC1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of human HeLa cell lysate with MUC1 antibody at 0.5ug/ml. Expected molecular weight: 120-500 kDa depending on glycosylation level.

Description

Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is a mucin encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. It is mapped to 1q22. Mucin 1 is a transmembrane mucin normally expressed on the apical borders of secretory epithelial cells. Overexpression of Mucin 1 is often associated with colon, breast, ovarian, lung and pancreatic cancers. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Mucin 1 stimulated ESR1-mediated transcription and contributed to estradiol-mediated growth and survival of breast cancer cells. This gene also can suppress pulmonary innate immunity, and its antiinflammatory activity may play an important modulatory role during

microbial infection.

Application Notes

Optimal dilution of the MUC1 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein corresponding to amino acids S1062-V1139 was used as the immunogen for the MUC1 antibody.

Storage

After reconstitution, the MUC1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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