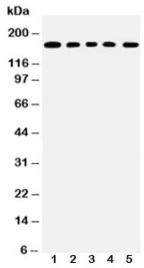
MUC1 Antibody (R31426)

Catalog No.	Formulation	Size
R31426	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P15941
Applications	Western blot: 0.5-1ug/ml
Limitations	This MUC1 antibody is available for research use only.



Western blot testing of MUC1 antibody and Lane 1: COLO320; 2: SW620; 3: HEPG2; 4: MCF-7; 5: Jurkat lysate; This glycoprotein is commonly visualized between 120~500 kDa.

Description

Mucin 1 protein is encoded by the MUC1 gene in humans. This gene encodes a membrane-bound protein that is a member of the mucin family. Family members are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. MUC1 is a transmembrane protein normally expressed on the apical borders of secretory epithelial cells. Overexpression 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. It stimulated ESR1-mediated transcription and contributed to estradiol-mediated growth and survival of breast cancer cells. This protein also can suppress pulmonary innate immunity, and its anti-inflammatory activity may play an important

modulatory role during microbial infection.

Application Notes

The stated application concentrations are suggested starting points. Titration of the MUC1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 1067-1083 (QELQRDISEMFLQIYKQ-human) were used as the immunogen for this 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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