
Product Name: KD-Validated MUC4 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01526**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 231.5kDa

Antigen Information

Gene Name	MUC4
	Mucin 4, Cell Surface Associated; Ascites Sialoglycoprotein; MUC-4; ASGP; Pancreatic
Alternative Names	Adenocarcinoma Mucin; Mucin 4, Tracheobronchial; Tracheobronchial Mucin; Testis Mucin; Mucin-4; HSA276359
Gene ID	4585.0
SwissProt ID	Q99102
Immunogen	A synthesized peptide derived from human MUC4

Background

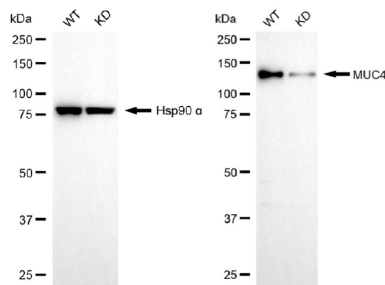
The major constituents of mucus, the viscous secretion that covers epithelial surfaces such as those in the trachea, colon, and cervix, are highly glycosylated proteins called mucins. These glycoproteins play important roles in the protection of the

epithelial cells and have been implicated in epithelial renewal and differentiation. This gene encodes an integral membrane glycoprotein found on the cell surface, although secreted isoforms may exist. At least two dozen transcript variants of this gene have been found, although for many of them the full-length transcript has not been determined or they are found only in tumor tissues. This gene contains a region in the coding sequence which has a variable number (>100) of 48 nt tandem repeats. [provided by RefSeq, Jul 2008]

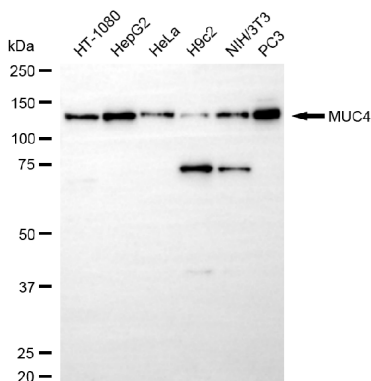
Research Area

Microbiology, Signal Transduction, Cancer

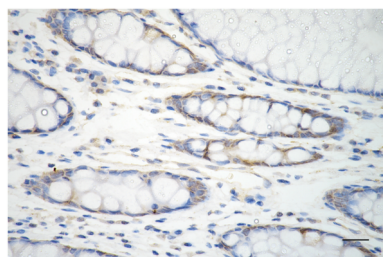
Image Data



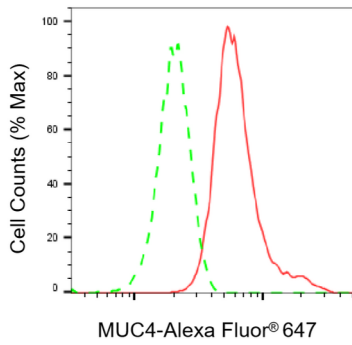
Western blotting analysis using MUC4 antibody (KVA01526). MUC4 expression in wild-type (WT) and MUC4 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MUC4 antibody (KVA01526, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using MUC4 antibody (KVA01526). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MUC4 antibody (KVA01526, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using MUC4 antibody (KVA01526, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Flow cytometric analysis of MUC4 expression in HeLa cells using MUC4 antibody (KVA01526, 1:2,000). Green, isotype control; red, MUC4.