

## MUC4 Rabbit mAb

Catalog No: #49606

Package Size: #49606-1 50ul #49606-2 100ul

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## Description

Product Name	MUC4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM19-36
Purification	ProA affinity purified
Applications	WB, IHC,FC
Species Reactivity	Hu, Rt
Immunogen Description	Recombinant protein
Other Names	Ascites sialoglycoprotein 1 antibody Ascites sialoglycoprotein 2 antibody Ascites sialoglycoprotein antibody ASGP antibody ASGP-1 antibody ASGP-2 antibody HSA276359 antibody MUC 4 antibody MUC-4 antibody Muc4 antibody MUC4_HUMAN antibody Mucin 4 antibody Mucin 4 cell surface associated antibody Mucin 4 tracheobronchial antibody Mucin-4 beta chain antibody Pancreatic adenocarcinoma mucin antibody Testis mucin antibody Tracheobronchial mucin antibody Tracheobronchial mucin Fragment antibody
Accession No.	Swiss-Prot#:Q99102
Uniprot	Q99102
GeneID	4585;
Calculated MW	120 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

WB: 1:500 IHC: 1:50-1:200 FC: 1:50-1:100

## Background

Mucins are a group of high molecular weight glycoproteins consisting of a mucin core protein and O-linked carbohydrates. Mucin 4, a membrane-bound mucin, is the human homolog of the rat sialomucin complex (SMC). Mucin 4 protein consists of Mucin 4 $\alpha$ , a large amino mucin type subunit, and Mucin 4 $\beta$ , a transmembrane subunit containing three EGF-like domains. The Mucin 4 gene is the predominant mucin gene expressed in the normal urothelium and is also expressed in several normal tissues such as trachea, lung and testis. Dysregulation of Mucin 4 results in high levels of expression in pancreatic tumors and tumor cell lines. Induction of Mucin 4 in pancreatic carcinoma by all-trans-retinoic acid is mediated through the retinoic acid receptor- $\alpha$  signaling pathway. TGF $\beta$ 2 serves as an interim mediator of this regulated expression. Alternative splicing in the 3'-end of the Mucin 4 gene generates at least 12 splice variants, which are characterized as two distinct types, a secreted type and a membrane-associated type. Mucin 4 protein acts as a heterodimeric bifunctional cell-surface glycoprotein and forms thick mucous effusion in the diseased middle ear.

## References

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Note: This product is for in vitro research use only