

## Anti-Mucin-4/MUC4 Antibody (8K130)

## Product Details

Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 120 kDa.
Clone:	8K130
Purification:	ProA affinity purified

## Applications

Application:	FCM,IHC,WB
Recommended	WB: 1:500; IHC: 1:50-200; FCM: 1:50-100

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q99102
Synonyms:	Testis mucin;Mucin-4;Ascites sialoglycoprotein (ASGP);MUC-4;Pancreatic adenocarcinoma mucin;Muc4

## Research 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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