

Product Information

Recombinant Anti-Human muc1 Antibody

Cat. No.: **MOM-18037**

This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Humanized (from mouse) Antibody is specific to Human MUC1, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack. The beta subunit contains a C-terminal domain which is involved in cell signaling, through phosphorylations and protein-protein interactions. Modulates signaling in ERK, SRC and NF-kappa-B pathways. In activated T-cells, influences directly or indirectly the Ras/MAPK pathway. Promotes tumor progression. Regulates TP53-mediated transcription and determines cell fate in the genotoxic stress response. Binds, together with KLF4, the PE21 promoter element of TP53 and represses TP53 activity

Specific Activity

Tested positive against native antigen.

Target

MUC1

Immunogen

The details of the immunogen for this antibody are not available.

Source

Humanized (from mouse)

Species Reactivity

Human

Type

Humanized(from mouse) IgG1

Expression Host

CHO

Predicted N terminal

H chain: QVQLQQS; L Chain: DIQLTQS

Purity

>95.0% as determined by analysis by SDS-PAGE.

Applications

Suitable for use in WB, IF, IP, Neut, FuncS, ELISA, FC and most other immunological methods.

Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[MUC1 mucin 1, cell surface associated \[Homo sapiens \]](#)

Official Symbol

MUC1

Synonyms

EMA; PEM; PUM; KL-6; MAM6; PEMT; CD227; H23AG; MUC-1; MUC-1/X; MUC1/ZD; MUC-1/SEC; Episialin; DF3; H23; Krebs von den Lungen-6; mucin 1, transmembrane; tumor-associated mucin; carcinoma-associated mucin; polymorphic epithelial mucin; peanut-reactive urinary mucin; tumor associated epithelial mucin; breast carcinoma-associated antigen DF3; tumor-associated epithelial membrane antigen; Breast carcinoma associated antigen DF3; CA15.3; CD227 antigen; Epithelial membrane antigen; Epithelial mucin tandem repeat sequence; H23 antigen; H23AG; KL 6; Krebs von den Lungen-6; Mucin 1 precursor; Mucin-1 subunit beta; Peanut reactive urinary mucin

Gene ID

[4582](#)

mRNA Refseq

[NM_002456.5](#)

Protein Refseq

[NP_002447.4](#)

MIM

[158340](#)

UniProt ID

P15941

Chromosome Location

1q21

Pathway

IL-7 Signaling Pathway; Metabolism of proteins; O-linked glycosylation of mucins; Post-translational protein modification; T Cell Receptor Signaling Pathway; Termination of O-glycan biosynthesis

Function

RNA polymerase II core promoter proximal region sequence-specific DNA binding; p53 binding; protein binding; transcription cofactor activity