

# Product Information

## Recombinant Anti-Human muc1 Antibody Fab Fragment

Cat. No.: **MOM-18065-F(E)**

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

### Product Overview

Recombinant Mouse Antibody Fab Fragment is bind 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

Mouse

### Species Reactivity

Human

### Type

Mouse IgG Fab

### Expression Host

CHO

### Predicted N terminal

H Chain: QVQLVQS; L Chain: DIQMTQS

### Purity

>95%, by SDS-PAGE with silver staining, under reducing conditions.

### Applications

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

### Storage

4°C. For long term storage, aliquot and store at -20°C. Repeated thawing and freezing must be avoided.

## 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