

Recombinant Human MUC1 Protein, Fc-tagged

Cat. No. MUC1-343H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Mucin-1 (24-380), Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Ser 380 (Accession # P15941-1).
Species	Human
Source	HEK293
ProteinLength	Ser 24 - Ser 380
Description	Mucin-1 (MUC1) is also known as Tumor-associated epithelial membrane antigen (EMA), Polymorphic epithelial mucin (PEM), Peanut-reactive urinary mucin (PUM), PEMT, Krebs von den Lungen-6 (KL-6), CD antigen CD227, Episialin, H23AG. MUC1 is a glycoprotein with extensive O-linked glycosylation of its extracellular domain. Mucins line the apical surface of epithelial cells in the lungs, stomach, intestines, eyes and several other organs. Mucins protect the body from infection by pathogen binding to oligosaccharides in the extracellular domain, preventing the pathogen from reaching the cell surface. Except protective function by binding to pathogens, MUC1 also functions in a cell signaling capacity. Overexpression of MUC1 is often associated with colon, breast, ovarian, lung and pancreatic cancers.
Predicted N Terminal	Ser 24
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	The protein has a calculated MW of 60.2 kDa. The protein migrates as 70 kDa under reducing (R) condition (SDS-PAGE) due to Glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MUC1 mucin 1, cell surface associated [Homo sapiens]
Official Symbol	MUC1
Synonyms	Mucin 1; MUC1; CD227; EMA; H23AG; KL-6; MAM6; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM; CA 15-3; Episialin
Gene ID	4582
mRNA Refseq	NM_001018016
Protein Refseq	NP_001018016

 Tel: 1-631-559-9269 1-516-512-3133

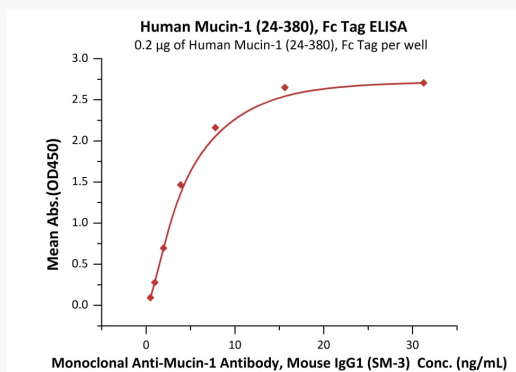
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM 158340

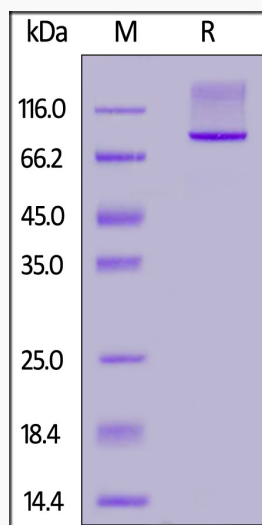
UniProt ID P15941

Bioactivity-ELISA



Immobilized Human Mucin-1 (24-380), Fc Tag at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Mucin-1 Antibody, Mouse IgG1 (SM-3) with a linear range of 0.5-4 ng/mL.

SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA