

Recombinant Human MUC1, His-tagged

Cat. No. MUC1-27747TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUC1(1095 to 1140) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1095-1140 a.a.
Description	Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is a mucin encoded by the MUC1 gene in humans. 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. Overexpression of MUC1 is often associated with colon, breast, ovarian, lung and pancreatic cancers. Joyce Taylor-Papadimitriou identified and characterised the antigen during her work with breast and ovarian tumors.
Form	Lyophilised
Molecular Mass	14 kDa including tags(His tag is 4kDa, Fusion protein size is 10 kDa)
AA Sequence	RPGSVVVQLTLAFREGTINVHDTVETQFNQYKTEAASRYNLTISDVS

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Applications	Western blot; ELISA; SDS-PAGE
Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: None Constituents: PBS
Storage	Store at -20°C
Reconstitution	Redissolve the powder with 1ml sterile water.
GENE INFORMATION	
Gene Name	MUC1 mucin 1, cell surface associated [Homo sapiens]
Official Symbol	MUC1
Synonyms	EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC; mucin-1; DF3 antigen; H23 antigen; Medullary cystic kidney disease, autosomal dominant; breast carcinoma-associated antigen DF3; cancer antigen 15-3; carcinoma-associated mucin; episialin; krebs von den Lungen-6; mucin 1, transmembrane; peanut-reactive urinary mucin; polymorphic epithelial mucin; tumor associated epithelial mucin; tumor-associated epithelial membrane antigen
Gene ID	4582
mRNA Refseq	NM_001018016
Protein Refseq	NP_001018016
MIM	158340

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UniProt ID	P15941
Chromosome Location	1q21
Pathway	IL-7 Signaling Pathway, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; O-linked glycosylation, organism-specific biosystem
Function	p53 binding; protein binding; transcription cofactor activity

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