

Active Native Human MUC1 Protein

Cat. No. MUC1-4770H Lot. No. (See product label)

SPECIFICATION

Product Overview	Native human MUC1 protein extracted from human ascites fluid.
Species	Human
Source	Human Ascites Fluid
Description	This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.
Form	Liquid
Bio-activity	> 5,000 IU/mL (ELISA)
Purity	Control Grade

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Applications	Controls / Calibrators / StandardsImmunoassaysClinical ChemistryAssay Development / ValidationLife ScienceTumor Markers
Storage	At -20 centigrade.
Storage Buffer	Solution in 1 M sodium chloride, 1% Triton™ X-100, 0.05% sodium azide, pH 7.4.
GENE INFORMATION	
Gene Name	MUC1
Official Symbol	MUC1 mucin 1, cell surface associated [Homo sapiens (human)]
Synonyms	CA 15-3; Tumor Marker 15-3; Mucin-1; MUC-1; Breast carcinoma-associated antigen DF3; Breast Tumor Antigen; MUC1; mucin 1, cell surface associated; 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; H23 antigen; 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
UniProt ID	P15941

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