PRODUCT INFORMATION

Target	MUC1
Synonyms	ADMCKD;ADMCKD1;CA 15-3;CD227;EMA;H23AG;KL-6;MAM6;MCD;MCKD;MCKD1;MUC-1;MUC-1/SEC;MUC-1/X;MUC1/ZD;PEM;PEMT;PUM
Description	Recombinant Human MUC1 Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P15941
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	MUC1(Leu1036-Val1156) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 14.4 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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.
Usage	Research use only
Conjugate	Unconjugated

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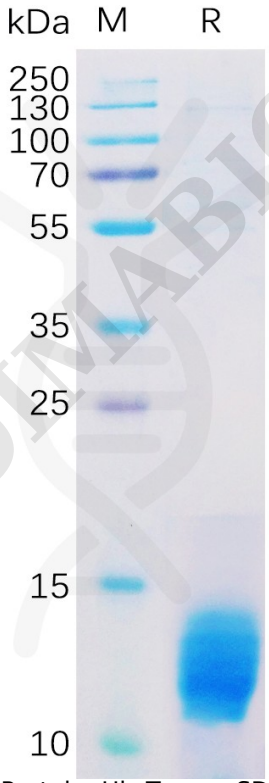


Figure 1. Human MUC1 Protein, His Tag on SDS-PAGE under reducing condition.

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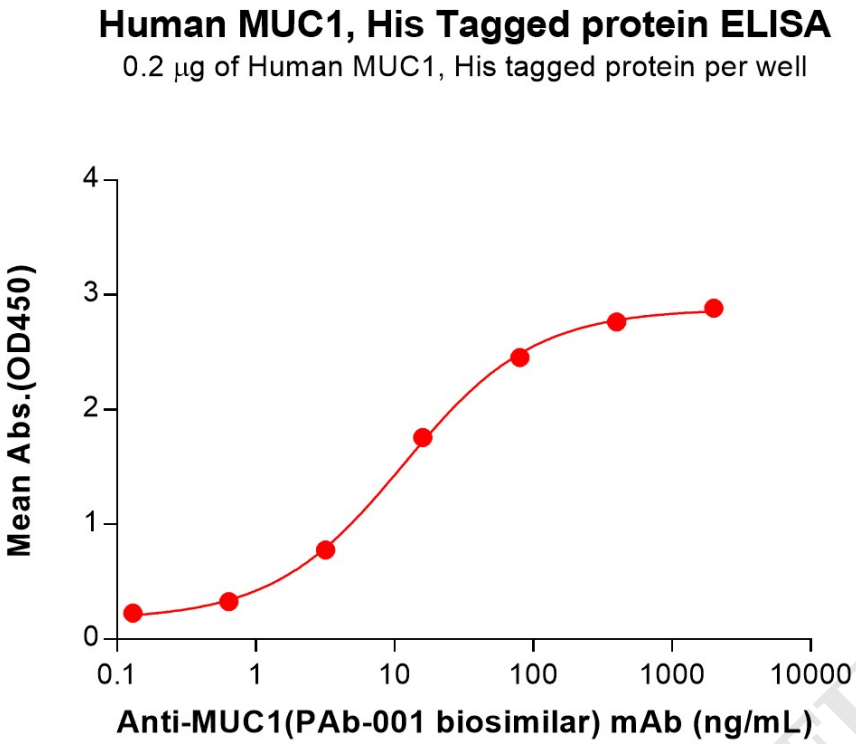


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human MUC1 Protein, His Tag (PME100106) can bind Anti-MUC1(PAb-001 biosimilar) mAb (BME100249) in a linear range of 0.64–80 ng/mL.

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