

## PRODUCT INFORMATION

<b>Target</b>	MUC18
<b>Synonyms</b>	Cell surface glycoprotein MUC18;Cell surface glycoprotein P1H12;Melanoma cell adhesion molecule;Melanoma-associated antigen A32;Melanoma-associated antigen MUC18;S-endo 1 endothelial-associated antigen;CD146
<b>Description</b>	Recombinant human MUC18 protein with C-terminal 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P43121
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-6×His Tag
<b>Molecular Characterization</b>	MUC18(Val24-Gly559) 6×His tag
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 60.6 kDa after removal of the signal peptide. The apparent molecular mass of MUC18-His is approximately 70-100 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration.[UniProtKB/Swiss-Prot Function]
<b>Usage</b>	Research use only



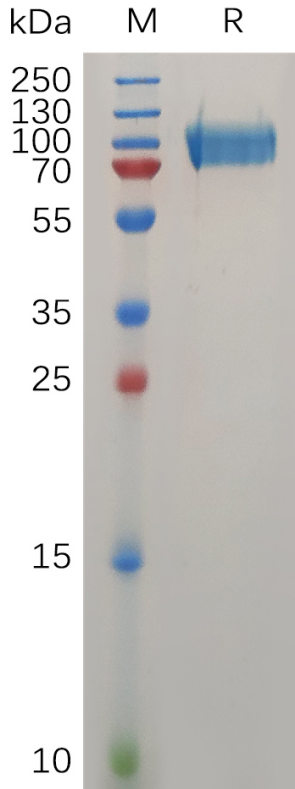


Figure 1. Human MUC18 Protein, His Tag on SDS-PAGE under reducing condition.

### Human MUC18, His Tagged protein ELISA

0.2 µg of Human MUC18, His tagged protein per well

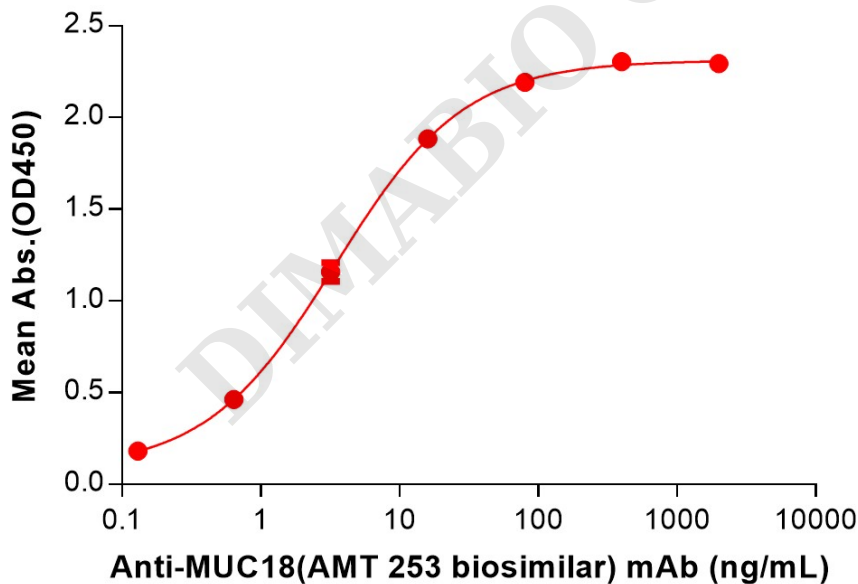


Figure 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human MUC18 Protein, His Tag (PME100735) can bind Anti-MUC18(AMT 253 biosimilar) mAb (BME100215) in a linear range of 0.13-16 ng/mL.

