

Human MSLN/Mesothelin Protein

Cat. No. MSL-HM280

Description

Source	Recombinant Human MSLN/Mesothelin Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu296-Gly580.
Accession	Q13421-2
Molecular Weight	The protein has a predicted MW of 59 kDa. Due to glycosylation, the protein migrates to 68-78 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

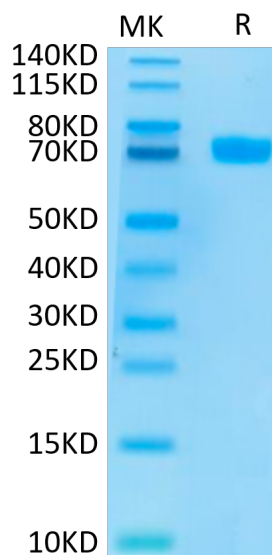
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Mesothelin, also known as MSLN, is a protein that in humans is encoded by the MSLN gene. Cloning studies showed that the mesothelin gene encodes a precursor protein that is processed to yield mesothelin which is attached to the cell membrane by a glycoposphatidylinositol linkage and a 31-kDa shed fragment named megakaryocyte-potentiating factor (MPF). Although it has been proposed that mesothelin may be involved in cell adhesion, its biological function is not known. A knockout mouse line that lacks mesothelin reproduces and develops normally.

Assay Data

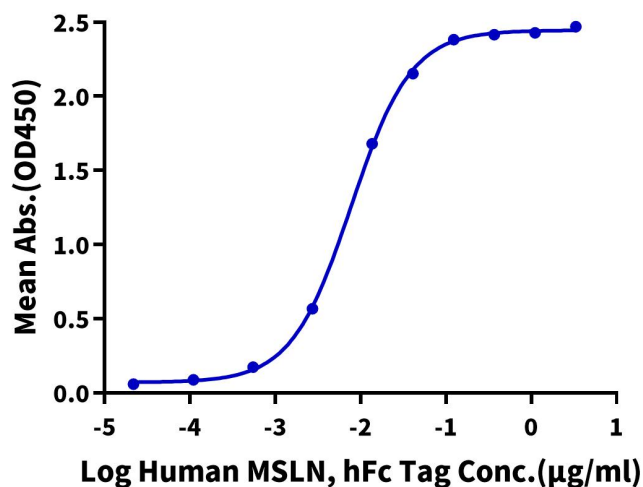
Bis-Tris PAGE



Human MSLN on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

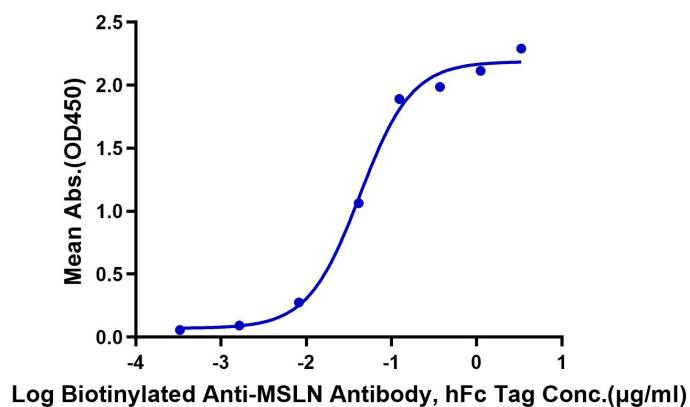
ELISA Data

Assay Data

Human MSLN, hFc Tag ELISA0.1 μ g Human CA125, His Tag Per Well

Immobilized Human CA125, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human MSLN, hFc Tag with the EC50 of 7.8ng/ml determined by ELISA (QC Test).

ELISA Data

Human MSLN, hFc Tag ELISA0.05 μ g Human MSLN, hFc Tag Per Well

Immobilized Human MSLN at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Anti-MSLN Antibody, hFc Tag with the EC50 of 44.2ng/ml determined by ELISA.