

Datasheet for ABIN2181518

Mesothelin Protein (MSLN) (AA 296-580) (Fc Tag)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	100 µg
Target:	Mesothelin (MSLN)
Protein Characteristics:	AA 296-580
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Mesothelin protein is labelled with Fc Tag.

Product Details

Sequence:	AA 296-580
Characteristics:	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 59.6 kDa. As a result of glycosylation, the protein migrates as 60-68 kDa under reducing (R) condition, and 120-130 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Mesothelin (MSLN)
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Target Details

Alternative Name:	Mesothelin (MSLN Products)
Background:	Mesothelin (MSLN) is also known as CAK1 antigen, Pre-pro-megakaryocyte-potentiating factor, which belongs to the mesothelin family. Mesothelin / MSLN can be proteolytically cleaved into the following two chains by a furin-like convertase: Megakaryocyte-potentiating factor (MPF) and the cleaved form of mesothelin. Both MPF and the cleaved form of mesothelin are N-glycosylated. Mesothelin / MSLN can interact with MUC16. The membrane-anchored forms of MSLN may play a role in cellular adhesion. MPF potentiates megakaryocyte colony formation in vitro.
Molecular Weight:	59.1 kDa
Pathways:	EGFR Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Intracellular Steroid Hormone Receptor Signaling Pathway , Steroid Hormone Mediated Signaling Pathway , Carbohydrate Homeostasis , cAMP Metabolic Process , Regulation of G-Protein Coupled Receptor Protein Signaling , Positive Regulation of Endopeptidase Activity , Regulation of Carbohydrate Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

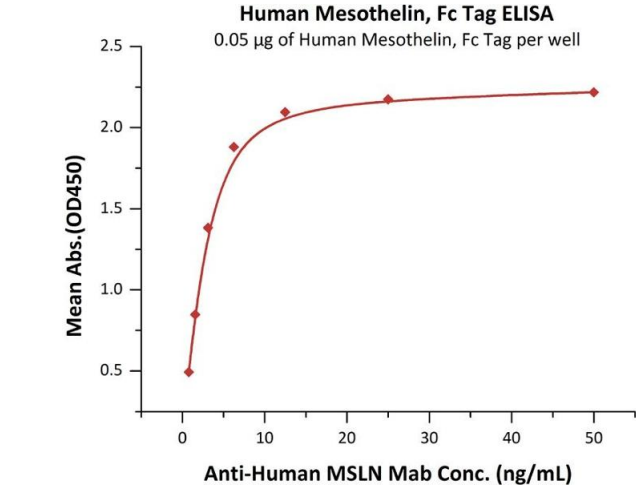
Publications

Product cited in:	Hua, Oh, Kim, Antonio, Vo, Om, Choi, Kim, Jung, Park, Jeong: "Peroxisome proliferator-activated receptor gamma as a theragnostic target for mesenchymal-type glioblastoma patients." in: Experimental & molecular medicine , Vol. 52, Issue 4, pp. 629-642, (2020) (PubMed).
	Yu, Xu, Qu, Yu, Li, Zhao, Qiu: "Decrease of MiR-31 induced by TNF-α inhibitor activates

SATB2/RUNX2 pathway and promotes osteogenic differentiation in ethanol-induced osteonecrosis." in: **Journal of cellular physiology**, Vol. 234, Issue 4, pp. 4314-4326, (2019) ([PubMed](#)).

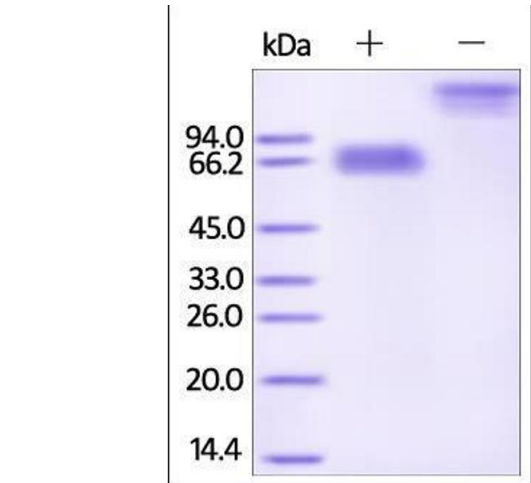
Zhao, Jiang, Wang, Wu: "Overexpression of microRNA-590-3p promotes the proliferation of and inhibits the apoptosis of myocardial cells through inhibition of the NF-κB signaling pathway by binding to RIPK1." in: **Journal of cellular biochemistry**, Vol. 120, Issue 3, pp. 3559-3573, (2019) ([PubMed](#)).

Images



ELISA

Image 1. Immobilized Human Mesothelin (296-580), Fc Tag (ABIN2181519,ABIN2181518) at 0.5 µg/mL (100 µL/well) can bind A MSLN Mab with a linear range of 0.8-3 ng/mL (QC tested).



SDS-PAGE

Image 2. Human Mesothelin (aa 296-580), Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.