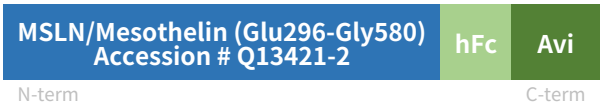
Rev07
Update: Dec,01,2025

DATASHEET

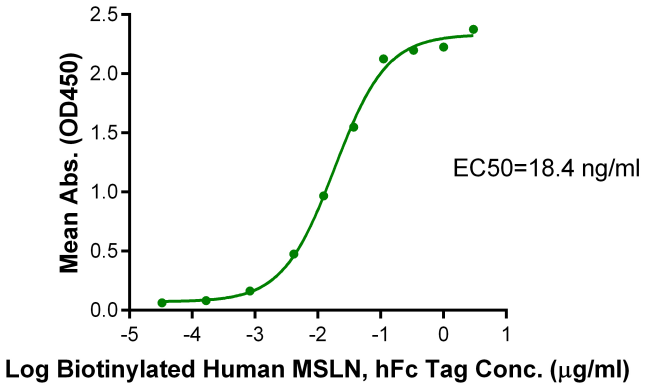
MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human

Cat. No.: Z03868

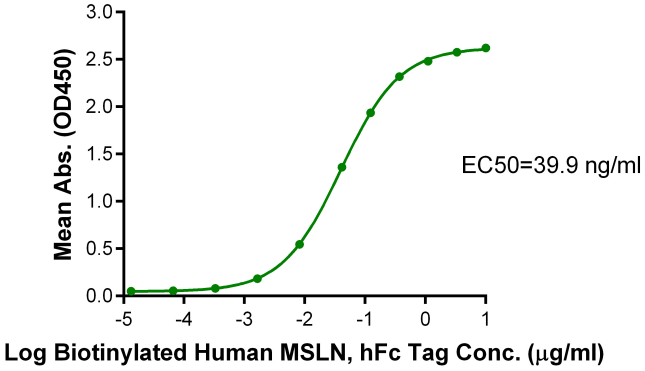
Product Introduction

Species	Human
Protein Construction	
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA.Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	61.1 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 μm filtered solution in PBS, pH 7.4.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

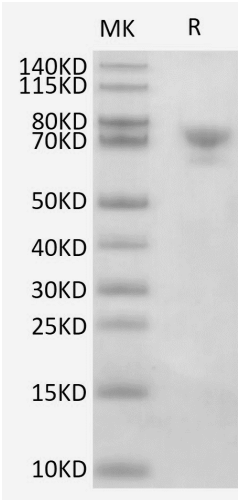
Examples



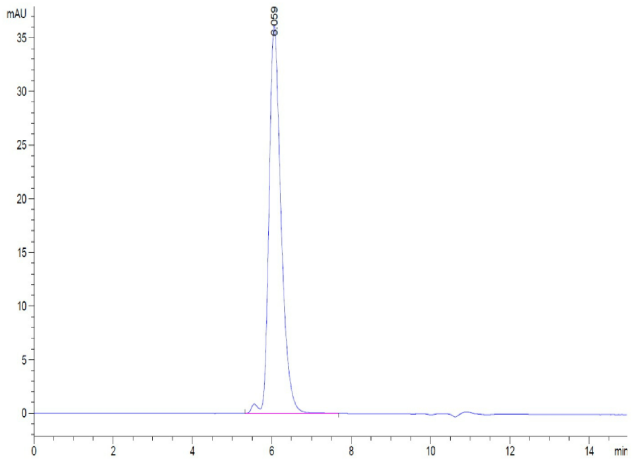
Immobilized Anti-MSLN Antibody, hFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human, hFc Tag with the EC50 of 18.4 ng/ml determined by ELISA.



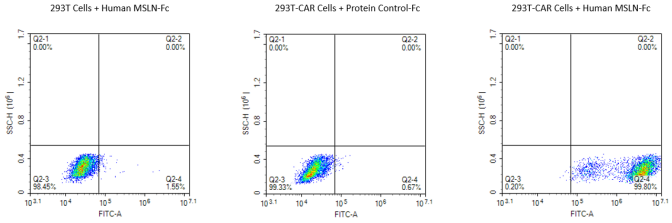
Immobilized Human CA125, His Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human, hFc Tag with the EC50 of 39.9 ng/ml determined by ELISA.



MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human is greater than 95% as determined by SEC-HPLC.



Use MSLN/Mesothelin(296-580) hFc Chimera[Biotin], Avi, Human to detect the expression rate of Anti-MSLN-CAR positive cell. 293T cells and anti-MSLN CAR-293T cells were incubated with Biotinylated human MSLN-hFc-Avi Tag. Non-transfected 293T cells and Fc-labeled protein control were used as negative control. SA-FITC was used to evaluate the binding activity of Biotinylated Human MSLN.

Background

Target Background : Mesothelin, also known as MSLN, is encoded by the MSLN gene. It encodes a precursor protein of 71 kDa that is processed to a 31 kDa shed protein called megakaryocyte potentiating factor (MPF) and a 40 kDa fragment, mesothelin. MSLN is attached to the cell membrane by a glycosyl-phosphatidylinositol (GPI) anchor. It is a differentiation antigen which is highly expressed in several human cancers, including virtually all mesotheliomas and pancreatic adenocarcinomas.

Synonyms : MSLN; CAK1; Mesothelin; MPF; MPFSMRP; SMR

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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