

Rev06
 Update: Aug,20,2025

DATASHEET

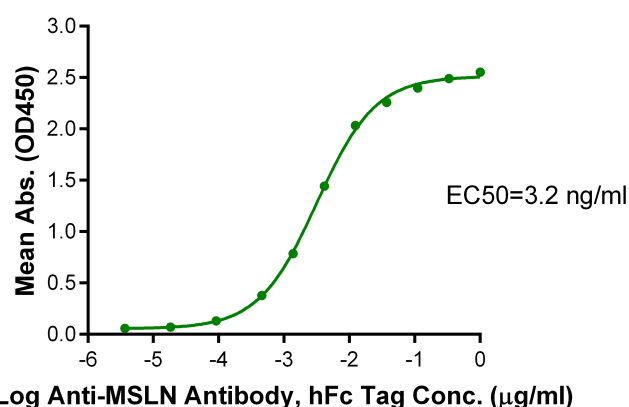
MSLN/Mesothelin (296-598, M593V), His, Human

Cat. No.: Z03857

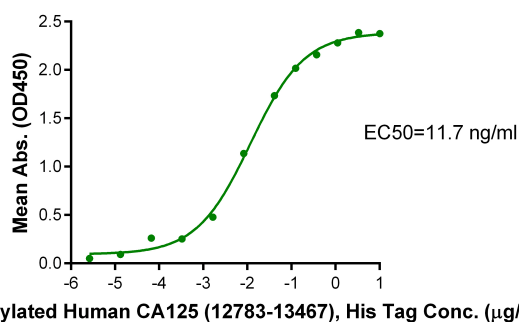
Product Introduction

Species	Human
Protein Construction	MSLN/Mesothelin (Glu296-Ser598 [M593V]) Accession # Q13421-3 His N-termC-term
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	35.20 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 40-50 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.

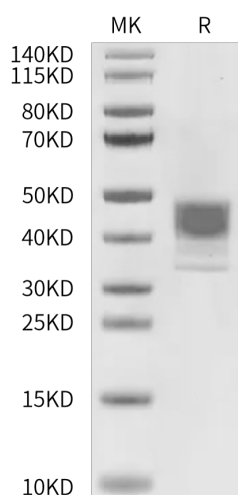
Examples



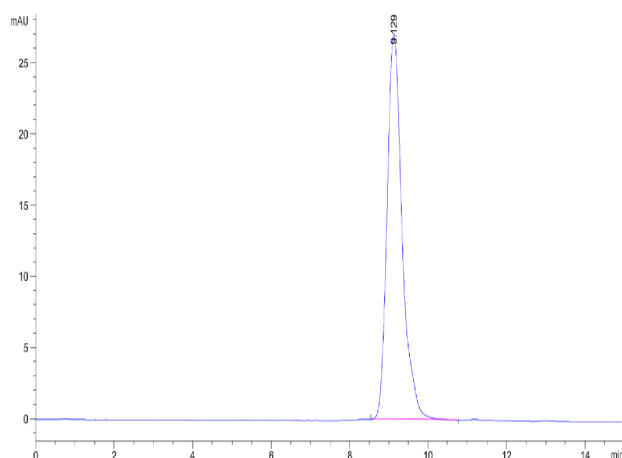
Immobilized MSLN/Mesothelin (296-598, M593V), His, Human, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-MSLN Antibody, hFc Tag with the EC50 of 3.2 ng/ml determined by ELISA.



Immobilized MSLN/Mesothelin (296-598, M593V), His, Human, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human CA125 (12783-13467), His Tag with the EC50 of 11.7 ng/ml determined by ELISA.



MSLN/Mesothelin (296-598, M593V), His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of MSLN/Mesothelin (296-598, M593V), His, Human is greater than 95% as determined by SEC-HPLC.

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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