

Recombinant Mouse Mesothelin/MSLN Protein

Catalog No.: RP01448

Sequence Information

Species **Gene ID**
Mouse 56047

Swiss Prot **Tags**
Q61468-1 C-His

Synonyms
MSLN, Mesothelin, MPF, MSLN

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
34.99 kDa 40–50 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

The megakaryocyte potentiating factor belongs to the mesothelin family. This family is comprised of several mammalian pre-pro-megakaryocyte potentiating factor precursor (MPF) or mesothelin proteins. Mesothelin is a glycosylphosphatidylinositol-linked glycoprotein highly expressed in mesothelial cells, mesotheliomas, and ovarian cancer, but the biological function of the protein is not known. Megakaryocyte potentiating factor is highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level). It interacts with MUC16 and potentiates megakaryocyte colony formation in vitro. Megakaryocyte potentiating factor is secreted by several mesothelioma cell lines and is frequently elevated in the blood of patients with mesothelioma. Measurement of this protein may be useful in following the response of mesothelioma to treatment.

Basic Information

Description

Recombinant Mouse Mesothelin/MSLN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp298–Ser600) of mouse MSLN/Mesothelin (Accession #NP_061345.1) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse Mesothelin/MSLN (Catalog: RP01448) at 2 μg/mL (100 μL/well) can bind Human CA125 (Catalog: RP01444) with a linear range of 0.01–0.72 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

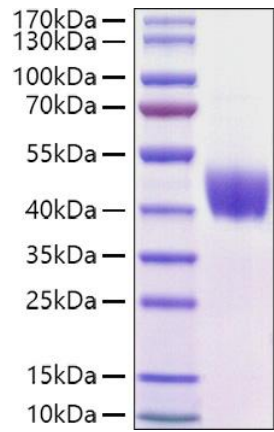
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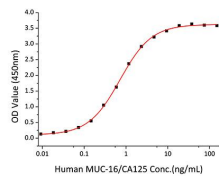
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Recombinant Mouse Mesothelin/MSLN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Mouse Mesothelin/MSLN at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human CA125 with a linear range of 0.01–0.72 ng/mL.