

Biotinylated Human Mesothelin / MSLN (296-580), Fc Tag, ultra sensitivity (primary amine labeling)

Catalog # AMS.MSN-H826x

For Research Use Only

Description

Source MABSol® Biotinylated Human Mesothelin / MSLN (296-580), Fc Tag (MSN-H826x) is expressed from human HEK293 cells. It contains AA Glu 296 - Gly 580 (Accession # AAH09272). It is the biotinylated form of Human Mesothelin / MSLN (296-580) Protein, Fc Tag (Cat # MSN-H526x).
Predicted N-terminus: Pro

Predicted N-terminus Pro

Protein Structure

Fc(Thr 106 - Lys 330) P01857	Mesothelin(Glu 296 - Gly 580) AAH09272
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Molecular Characterization This protein carries a human IgG1 Fc fragment at the N-terminus. The protein has a calculated MW of 59.6 kDa. The protein migrates as 60-68 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.

Biotinylation The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.

Biotin:Protein Ratio The biotin to protein ratio is 3-5 as determined by the HABA assay.

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Bioactivity Measured by its binding ability in a functional ELISA. Immobilized Anti-MSLN MAb, Human IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Human Mesothelin, Fc Tag (Cat. No. MSN-H826x) with a linear range of 0.5-16 ng/mL (QC tested).

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Contact us for customized product form or formulation.

Reconstitution Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

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.

References

- (1) Chang K., et al., 1996, Proc. Natl. Acad. Sci. U.S.A. 93:136-140.
- (2) Yamaguchi N., et al., 1994, J. Biol. Chem. 269:805-808.
- (3) Rump A., et al., 2004, J. Biol. Chem. 279:9190-9198.
- (4) Ma J., et al., 2012, J. Biol. Chem. 287:33123-33131.

Please contact us if you have any questions about this product.

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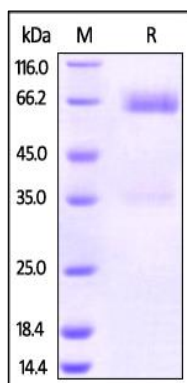
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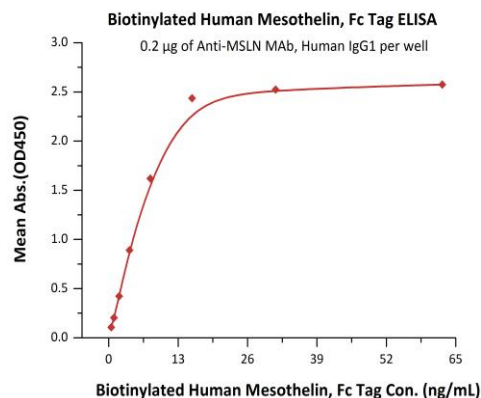
Assay Data

SDS-PAGE Data



Biotinylated Human Mesothelin (aa 296-580), Fc tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity Data



Immobilized Anti-MSLN MAb, Human IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Human Mesothelin, Fc Tag (Cat. No. MSN-H826x) with a linear range of 0.5-16 ng/mL (QC tested).

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