Datasheet for ABIN5674604

# Mesothelin Protein (MSLN) (AA 296-580) (His tag,AVI tag,Biotin)

2 Images

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## Overview

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|---|---|
| Quantity: | 200 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 His tag,AVI tag,Biotin. |

## Product Details

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| Brand: | PrecisionAvi |
| Sequence: | AA 296-580 |
| Specificity: | Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. |
| Characteristics: | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. The protein has a calculated MW of 35.9 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | Mesothelin (MSLN) |
| 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 interacts with MUC16. The membrane-anchored forms of MSLN may play a role in cellular adhesion. MPF potentiates megakaryocyte colony formation in vitro. |
| Molecular Weight: | 35.9 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

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| Comment: | Ready-to-use AvitagTM biotinylated protein:<br>The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.<br><br>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |

## Handling

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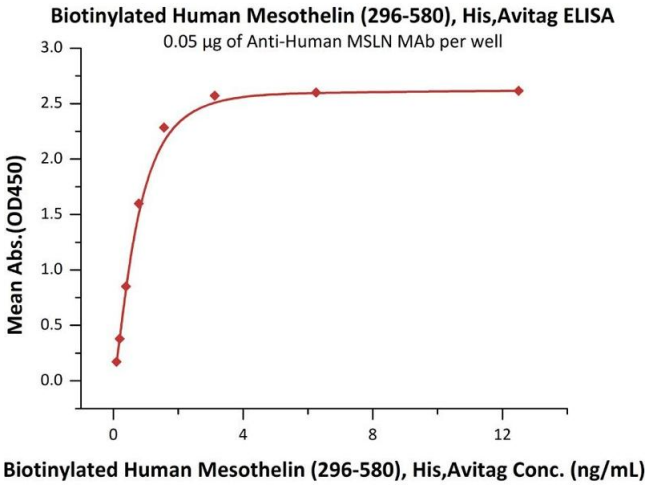
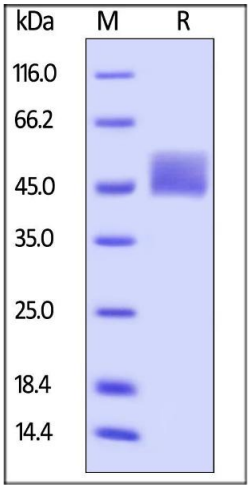
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |

## Images




**ELISA**

**Image 1.** Immobilized A MSLN MAb at 0.5 μg/mL (100 μL/well) can bind Biotinylated Human Mesothelin (296-580), His,Avitag (ABIN5674604,ABIN6253706) with a linear range of 0.1-0.78 ng/mL (QC tested).




**SDS-PAGE**

**Image 2.** Biotinylated Human Mesothelin (296-580), His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .