

**Mesothelin**  
**Catalog # PVGS1625****Specification**

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**Mesothelin - Product Information**

Primary Accession [Q13421](#)  
**Species**  
Human

**Sequence**  
Glu296-Gly580

**Purity**  
> 90% as analyzed by SDS-PAGE

**Endotoxin Level**  
≤ 1 EU/ µg of protein by gel clotting method

**Expression System**  
HEK 293

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**Mesothelin - Additional Information**

**Gene ID** 10232

**Other Names**  
Mesothelin, CAK1 antigen, Pre-pro-megakaryocyte-potentiating factor, Megakaryocyte-potentiating factor, MPF, Mesothelin, cleaved form, MSLN, MPF

**Target Background**  
Mesothelin, also known as MSLN, is a 40 kDa protein that is expressed in mesothelial cells. It has been reported that this protein is over expressed in several human tumors, including mesothelioma, ovarian cancer, pancreatic adenocarcinoma, lung adenocarcinoma, and cholangiocarcinoma. Mesothelin can bind MUC16 (also known as CA125), indicating that the interaction of mesothelin and MUC16 may contribute to the implantation and peritoneal spread of tumors by cell adhesion. Since mesothelin is overexpressed in several cancers and is immunogenic, the protein could be exploited as tumor marker or as the antigenic target of a

therapeutic cancer vaccine.

## **Mesothelin - Protein Information**

**Name** MSLN

**Synonyms** MPF

### **Function**

Membrane-anchored forms may play a role in cellular adhesion.

### **Cellular Location**

Cell membrane; Lipid-anchor, GPI-anchor. Golgi apparatus [Isoform 3]: Secreted.

### **Tissue Location**

Expressed in lung. Expressed at low levels in heart, placenta and kidney. Expressed in mesothelial cells. Highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level).

## **Mesothelin - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Mesothelin - Images**