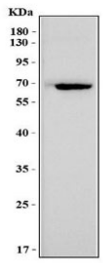
Msln Antibody for Mouse / Mesothelin (RQ8301)

Catalog No.	Formulation	Size
RQ8301	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q61468
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This Msln antibody is available for research use only.



Western blot analysis of Msln antibody in mouse heart tissue lysate. A distinct band is observed at approximately 65-70 kDa, consistent with the predicted molecular weight of Mesothelin at approximately 69 kDa. Mesothelin is a glycoprotein and post-translational modification, including glycosylation, may contribute to minor apparent molecular weight variation on SDS-PAGE. This antibody is designed for mouse sample detection.

Description

Mesothelin is a glycosylphosphatidylinositol-anchored cell surface protein encoded by the MSLN gene and normally expressed on mesothelial cells lining the pleural, peritoneal, and pericardial cavities. The protein localizes predominantly to the plasma membrane and is synthesized as a precursor molecule that undergoes proteolytic processing to generate a membrane-associated mature mesothelin fragment and a soluble fragment known as megakaryocyte potentiating factor. For studies utilizing murine models of cancer and mesothelial biology, MSLN Antibody for Mouse enables detection of Mesothelin expression in mouse tissues and experimental systems.

Under physiologic conditions, mesothelin expression is relatively restricted to mesothelial surfaces, with limited distribution in most other normal tissues. This restricted baseline expression has contributed to significant interest in mesothelin as a tumor-associated antigen. Increased expression has been reported in several epithelial malignancies including malignant mesothelioma, ovarian carcinoma, pancreatic ductal adenocarcinoma, and subsets of lung and gastric carcinomas. In these tumor types, mesothelin is commonly observed along the cell membrane of malignant epithelial cells, sometimes accompanied by cytoplasmic staining depending on tissue processing and expression level.

In murine research models, mesothelin has been investigated in studies examining tumor growth, immune cell interactions, adhesion mechanisms, and evaluation of therapeutic targeting strategies. Mouse tumor models, including syngeneic systems and xenografts, frequently rely on antibody-based detection of tumor-associated antigens to assess expression patterns and experimental modulation. Reliable identification of mesothelin in mouse tissues is therefore important for translational oncology research linking preclinical findings to human disease biology.

Mesothelin has also been studied in the context of cell surface protein interactions and tumor microenvironment dynamics. Its membrane localization and differential expression between normal mesothelial tissue and tumor cells make it a useful protein for comparative studies in cancer biology. This rabbit polyclonal antibody provides a tool for assessing Mesothelin expression in mouse samples and supports research applications focused on tumor-associated antigen expression and mesothelial cell biology.

This Mesothelin antibody is part of a broader Mesothelin antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the Msln antibody should be determined by the researcher.

Immunogen

An E.coli-derived mouse recombinant protein (Q44-K497) was used as the immunogen for the Msln antibody.

Storage

After reconstitution, the Msln antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.