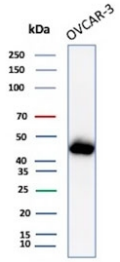
Mesothelin Antibody Mouse Monoclonal / MSLN [clone MSLN/3383] (V5642)

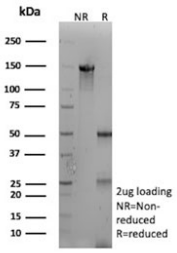
Catalog No.	Formulation	Size
V5642-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5642-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5642SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MSLN/3383
Purity	Protein G affinity
UniProt	Q13421
Localization	Cell membrane, Golgi apparatus, Secreted
Applications	Western Blot : 1-2ug/ml
Limitations	This Mesothelin antibody is available for research use only.



Western blot analysis of Mesothelin antibody in human OVCAR-3 cell lysate. A prominent band is observed at approximately 40-45 kDa, consistent with the cleaved membrane-associated form of Mesothelin, while the full-length precursor is predicted at approximately 69 kDa. Mesothelin is a glycoprotein and glycosylation can contribute to apparent molecular weight shifts on SDS-PAGE. Mouse monoclonal (Clone MSLN/3383) was used for detection.



SDS-PAGE analysis of purified, BSA-free mouse monoclonal Mesothelin antibody (clone MSLN/3383) as confirmation of integrity and purity.

Description

Mesothelin Antibody Mouse Monoclonal recognizes Mesothelin, a glycosylphosphatidylinositol-anchored cell surface protein encoded by the MSLN gene. Mesothelin is physiologically expressed on mesothelial cells lining the pleura, peritoneum, and pericardium, where it localizes predominantly to the cell membrane. Mesothelin Antibody Mouse Monoclonal clone MSLN/3383 is designed for research applications investigating mesothelial biology and mesothelin expression in human tumors.

Mesothelin is synthesized as a precursor protein that undergoes proteolytic processing to generate a membrane-bound mature mesothelin fragment and a soluble fragment known as megakaryocyte potentiating factor. In normal tissues, expression is limited mainly to mesothelial surfaces. In contrast, mesothelin is frequently overexpressed in several epithelial malignancies, including malignant mesothelioma, ovarian carcinoma, pancreatic ductal adenocarcinoma, and subsets of lung and gastric carcinomas. In these tumors, staining is commonly observed along the cell membrane of malignant epithelial cells, sometimes accompanied by cytoplasmic reactivity depending on tissue handling and expression level.

Because mesothelin shows restricted distribution in normal tissues and elevated expression in multiple cancers, it has been extensively studied in tumor biology, biomarker research, and experimental therapeutic targeting strategies. Its expression pattern makes it a useful marker in research evaluating tumor phenotype and cell surface protein expression in mesothelin-positive malignancies.

Mesothelin Antibody Mouse Monoclonal clone MSLN/3383 provides a tool for detecting MSLN expression in human tissue samples and experimental models. This monoclonal antibody is suitable for research applications focused on mesothelial tissues and mesothelin-expressing tumors.

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

Application Notes

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

Immunogen

A portion of amino acids 273-407 from human Mesothelin protein was used as the immunogen for the Mesothelin antibody.

Storage

Aliquot the Mesothelin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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