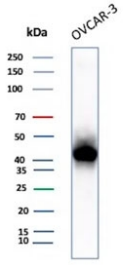
MSLN Antibody for WB / Mesothelin Western Blot Antibody [clone rMSLN/8764] (V4429)

Catalog No.	Formulation	Size
V4429-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4429-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4429SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

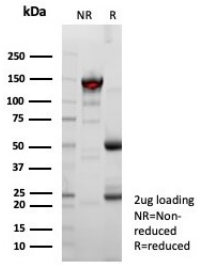
Recombinant | MOUSE MONOCLONAL

Bulk quote request

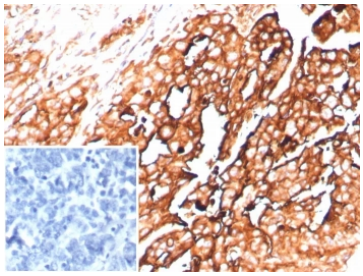
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rMSLN/8764
Purity	Protein A/G affinity
UniProt	Q13421
Localization	Cell Surface, Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT Western Blot : 2-4ug/ml
Limitations	This MSLN Antibody for WB / Mesothelin Western Blot Antibody is available for research use only.



MSLN Antibody for WB. Western blot analysis of MSLN antibody in human OVCAR-3 cell lysate. The recombinant mouse mAb clone rMSLN/8764 detects a prominent band at approximately 40 kDa, consistent with the processed mature Mesothelin form generated by proteolytic cleavage of the precursor protein. The predicted molecular weight of the full-length Mesothelin precursor is approximately 70 kDa, while the membrane-associated processed form is approximately 40 kDa. The observed band pattern in OVCAR-3 cells aligns with expected processing of Mesothelin in ovarian carcinoma-derived cell lines.



SDS-PAGE analysis of purified, BSA-free recombinant MSLN antibody (clone rMSLN/8764) as confirmation of integrity and purity.



MSLN Antibody Ovarian Cancer IHC. Immunohistochemistry of MSLN antibody in human ovarian cancer tissue. The recombinant mouse mAb clone rMSLN/8764 demonstrates strong membranous and cytoplasmic HRP-DAB brown staining in tumor epithelial cells, consistent with Mesothelin overexpression in ovarian carcinoma. Staining is predominantly localized along the cell membrane with additional cytoplasmic signal reflecting biosynthesis and processing. The negative control inset, using PBS in place of primary antibody, shows no specific staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to incubation.

Description

Mesothelin (MSLN) is a glycosylphosphatidylinositol-anchored cell surface protein with low baseline expression in normal mesothelial cells but marked upregulation in malignancies including mesothelioma, ovarian carcinoma, and pancreatic adenocarcinoma. MSLN Antibody for WB is used to detect mesothelin protein expression in denatured lysates and to evaluate its processing state, abundance, and regulation in cancer cell models. The protein undergoes characteristic proteolytic cleavage, generating distinct molecular species that are routinely observed in western blot analysis.

Mesothelin antibody, also referred to as MSLN antibody or mesothelioma-associated antigen antibody, recognizes mesothelin under denaturing conditions and enables detection of both precursor and processed forms. The full-length precursor is approximately 70 kDa, while proteolytic processing yields a membrane-associated fragment typically observed at approximately 40-50 kDa. In many cancer cell lines, the processed form is the predominant species detected, making this lower molecular weight band the primary indicator of mesothelin expression in western blot experiments.

As a western blot antibody, this clone provides robust detection of endogenous mesothelin in tumor-derived cell lysates such as OVCAR-3. A strong band in the 40-50 kDa range is consistent with mature, processed mesothelin, while less intense higher molecular weight bands may represent precursor protein or incompletely processed intermediates. Apparent molecular weight may vary depending on glycosylation status and sample preparation conditions, and slight band shifts should be interpreted within the context of mesothelinÃ¢Â€Â™s known post-translational processing.

Detection of mesothelin by western blot provides important insight into tumor-associated protein expression and complements tissue-based analyses. Elevated mesothelin levels are associated with tumor progression, cell adhesion, and metastatic dissemination through interaction with MUC16 (CA125). Monitoring mesothelin expression and processing by western blot is therefore widely used in cancer research to assess tumor biology and protein regulation across experimental systems.

Overall, MSLN Antibody for WB enables reliable and specific detection of mesothelin protein, with clear identification of both precursor and processed forms, supporting accurate interpretation of banding patterns and detailed analysis of mesothelin expression in cancer cell lysates.

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

Application Notes

Optimal dilution of the MSLN Antibody for WB / Mesothelin Western Blot Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 273-407) from the human protein was used as the immunogen for the recombinant MSLN antibody.

Storage

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

Alternate Names

Mesothelin antibody, MSLN antibody, Mesothelioma antigen antibody, Tumor marker antibody, CA125-binding protein antibody