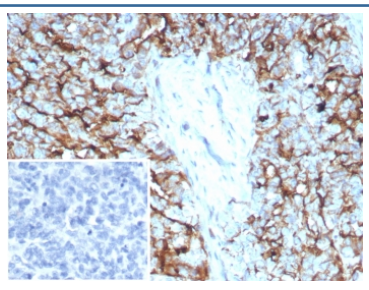
Mesothelin Antibody / Ovarian Cancer Marker Antibody [clone MSLN/8391R] (V4427)

Catalog No.	Formulation	Size
V4427-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4427-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4427SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

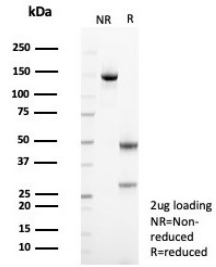
Recombinant RABBIT MONOCLONAL

Bulk quote request

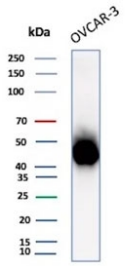
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSLN/8391R
Purity	Protein A/G affinity
UniProt	Q13421
Localization	Cell surface, Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Mesothelin Antibody / Ovarian Cancer Marker Antibody is available for research use only.



Mesothelin Antibody Ovarian Cancer IHC. Immunohistochemistry analysis of mesothelin expression in FFPE human ovarian carcinoma using clone MSLN/8391R. Strong membranous HRP-DAB brown staining is observed in malignant epithelial cells with additional cytoplasmic signal, consistent with mesothelin synthesis and cell surface localization. Tumor cell clusters are clearly delineated, while surrounding stromal elements show minimal reactivity, supporting specificity for mesothelin-expressing tumor cells.
Negative control inset using PBS in place of the primary antibody shows no specific staining. Heat-induced epitope retrieval was performed in pH 9 Tris-EDTA buffer prior to immunostaining.



SDS-PAGE analysis of purified, BSA-free Mesothelin antibody (clone MSLN/8391R) as confirmation of integrity and purity.



Mesothelin Antibody OVCAR-3 Ovarian Cancer WB. Western blot analysis of human OVCAR-3 cell lysate using Mesothelin Antibody. A strong band is detected at approximately 40-50 kDa, consistent with the processed form of mesothelin derived from cleavage of the ~70 kDa precursor protein. Mesothelin is synthesized as a precursor that undergoes proteolytic processing to generate a membrane-associated fragment, explaining the lower apparent molecular weight observed. This banding pattern aligns with reported mesothelin expression in ovarian cancer cell lines.

Description

Mesothelin (MSLN) is a glycosylphosphatidylinositol-anchored cell surface protein with highly restricted expression in normal mesothelial cells but marked overexpression in ovarian carcinoma, particularly high-grade serous ovarian cancer. Mesothelin Antibody is widely used as an ovarian cancer marker antibody due to its consistent and often diffuse expression in tumor cells and its established role in tumor progression. Its interaction with MUC16 (CA125) promotes cell adhesion and facilitates peritoneal dissemination, a defining feature of advanced ovarian cancer, making mesothelin a biologically and clinically relevant biomarker.

Mesothelin antibody, also referred to as MSLN antibody or ovarian tumor antigen antibody, produces characteristic membranous and cytoplasmic staining corresponding to cell surface localization and protein processing. In tissue-based assays, normal expression is largely confined to mesothelial linings, while ovarian carcinoma demonstrates strong and uniform staining across malignant epithelial cells. This pronounced contrast between limited physiologic expression and tumor-associated overexpression enhances interpretability and supports reliable identification of ovarian tumor cells.

As an ovarian cancer marker antibody, this clone provides robust detection of ovarian serous carcinoma, where prominent membranous staining highlights tumor architecture and supports evaluation of tumor distribution within tissue sections. Mesothelin expression is also observed in other malignancies such as mesothelioma and pancreatic adenocarcinoma; however, its strong and consistent expression in ovarian cancer, combined with minimal staining in many non-expressing tissues, reinforces its value in tumor classification and biomarker analysis.

This antibody is further supported by western blot validation in OVCAR-3 ovarian cancer cell lysates, where it detects a band consistent with endogenous mesothelin expression. This confirms target recognition at the protein level and provides complementary evidence supporting its use across multiple experimental approaches, including immunohistochemistry and protein analysis workflows.

Functionally, mesothelin contributes to tumor cell adhesion, invasion, and metastatic spread through binding to MUC16 (CA125), promoting tumor implantation within the peritoneal cavity. Its restricted normal tissue distribution and elevated tumor expression underpin its importance as both a diagnostic biomarker and therapeutic target. Overall, Mesothelin Antibody provides high-confidence detection of mesothelin expression, supporting detailed characterization of ovarian cancer and investigation of mesothelin-driven tumor biology.

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

Application Notes

Optimal dilution of the Mesothelin Antibody / Ovarian Cancer Marker 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 Mesothelin antibody.

Storage

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

Alternate Names

MSLN antibody, Ovarian cancer marker antibody, Mesothelin antigen antibody, CA125-binding protein antibody, Ovarian tumor antigen antibody

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