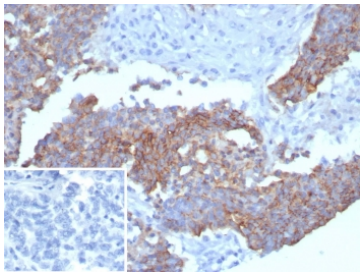
Recombinant MSLN Antibody / Mesothelin [clone MSLN/8331R] (V5643)

Catalog No.	Formulation	Size
V5643-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5643-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5643SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

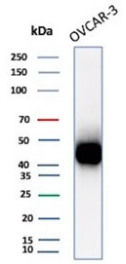
Recombinant RABBIT MONOCLONAL

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/8331R
Purity	Protein A affinity
UniProt	Q13421
Localization	Cell surface, Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This recombinant MSLN antibody is available for research use only.



Immunohistochemistry of Recombinant MSLN Antibody in human ovarian carcinoma. Formalin-fixed, paraffin-embedded human ovarian carcinoma shows membranous and cytoplasmic staining of tumor epithelial cells. Clone MSLN/8331R was used following heat-induced epitope retrieval by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes and cooling at room temperature. The inset shows PBS in place of primary antibody as a secondary-only negative control.



Western blot testing of human OVCAR-3 cell lysate with Mesothelin antibody (clone MSLN/8331R). Predicted molecular weight ~69 kDa (precursor), ~40 kDa (cleaved form). Glycosylation may make the protein run higher than expected.

Description

Recombinant MSLN Antibody recognizes Mesothelin, a glycosylphosphatidylinositol-anchored cell surface protein encoded by the MSLN gene. Mesothelin is normally expressed at low levels in mesothelial cells lining the pleura, peritoneum, and pericardium, where it localizes to the cell membrane. Recombinant MSLN Antibody clone MSLN/8331R is a rabbit monoclonal antibody developed for research applications investigating mesothelial biology and tumor-associated mesothelin expression.

Mesothelin is synthesized as a precursor protein that is proteolytically cleaved to generate a membrane-bound mature mesothelin fragment and a soluble fragment known as megakaryocyte potentiating factor. The membrane-associated form is frequently overexpressed in several epithelial malignancies, including malignant mesothelioma, ovarian carcinoma, pancreatic ductal adenocarcinoma, and subsets of lung and gastric carcinomas. In tumor cells, mesothelin expression is typically observed along the cell membrane, often with additional cytoplasmic staining depending on tissue processing and expression levels.

Because of its restricted distribution in normal tissues and elevated expression in certain cancers, mesothelin has been widely studied as a tumor-associated antigen in experimental oncology. Research efforts have focused on its role in cell adhesion, tumor progression, and interaction with other surface molecules. Mesothelin has also been explored as a target in therapeutic development and tumor biomarker research, increasing interest in reliable antibodies for detecting MSLN expression in tissue-based studies.

Recombinant MSLN Antibody clone MSLN/8331R provides a tool for evaluating mesothelin expression in human tissue samples and experimental models. This rabbit monoclonal antibody is suitable for research applications involving 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 recombinant MSLN antibody should be determined by the researcher.

Immunogen

A portion of amino acids 250-450 from human Mesothelin 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.

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