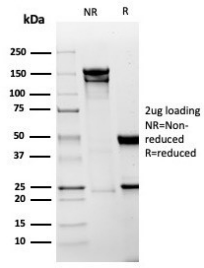
Mesothelin Antibody Rabbit Monoclonal / MSLN [clone MSLN/6443R] (V4426)

Catalog No.	Formulation	Size
V4426-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4426-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4426SAF-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/6443R
Purity	Protein A/G affinity
UniProt	Q13421
Localization	Cell surface, Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This Mesothelin antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free Mesothelin antibody rabbit monoclonal (clone MSLN/6443R) as confirmation of integrity and purity.

Description

Mesothelin antibody recognizes Mesothelin, a glycosylphosphatidylinositol-anchored cell surface glycoprotein encoded by

the MSLN gene located on chromosome 16p13.3. Mesothelin Antibody Rabbit Monoclonal is developed to detect this tumor-associated antigen that is highly expressed in several epithelial malignancies. Mesothelin is synthesized as a precursor protein that undergoes furin-mediated proteolytic cleavage to generate a membrane-bound mature form and a secreted fragment known as megakaryocyte potentiating factor. In normal physiology, Mesothelin expression is largely restricted to mesothelial cells lining the pleura, peritoneum, and pericardium, where it localizes primarily to the plasma membrane.

Mesothelin antibody, also referred to in the literature as CAK1 antibody and megakaryocyte potentiating factor precursor antibody, targets a differentiation antigen that is markedly overexpressed in malignant mesothelioma, pancreatic ductal adenocarcinoma, ovarian serous carcinoma, and subsets of lung and gastric carcinomas. In tumor tissues, Mesothelin typically demonstrates strong membranous staining with variable cytoplasmic signal reflecting biosynthesis and intracellular trafficking prior to cell surface anchoring. Its restricted expression in most normal tissues and significant upregulation in cancer have established Mesothelin as a widely studied tumor biomarker.

Functionally, Mesothelin contributes to tumor cell adhesion and metastatic dissemination. A well-characterized interaction occurs with MUC16, also known as CA125, facilitating heterotypic adhesion that may promote peritoneal implantation and spread of ovarian carcinoma cells. Mesothelin expression has also been associated with enhanced cellular proliferation, resistance to apoptosis, and activation of signaling pathways that support tumor progression. Although its exact physiologic role in normal mesothelial biology remains incompletely defined, its involvement in oncogenic processes is well recognized in translational research.

The MSLN gene product is post-translationally processed and may generate soluble Mesothelin-related peptides detectable in patient serum. These circulating forms have been investigated in research settings as potential biomarkers for disease monitoring, particularly in mesothelioma and pancreatic cancer. Due to its cell surface accessibility and tumor-restricted distribution, Mesothelin remains a prominent target for antibody-based therapeutic development and biomarker studies.

This rabbit monoclonal antibody clone MSLN/6443R targets Mesothelin for research applications focused on tumor biology, biomarker assessment, and target validation. By enabling consistent detection of Mesothelin expression in experimental systems, this Mesothelin antibody supports oncology research efforts at NSJ Bioreagents.

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 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.

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