

Product datasheet

Biotin Anti-Mesothelin antibody [MSLN/2131] ab271813

[3 Images](#)

Overview

Product name	Biotin Anti-Mesothelin antibody [MSLN/2131]
Description	Biotin Mouse monoclonal [MSLN/2131] to Mesothelin
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: IHC-P, Protein Array
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Mesothelin aa 273-407. The exact sequence is proprietary. Database link: Q13421
Positive control	IHC-P: Human lung, Human endometrial carcinoma
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor Concentrate.
Clonality	Monoclonal
Clone number	MSLN/2131
Isotype	IgG2b

Light chain type

kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab271813 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 2 - 4 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Protein Array		Use at an assay dependent concentration.

Target

Function

Membrane-anchored forms may play a role in cellular adhesion.
Megakaryocyte-potentiating factor (MPF) potentiates megakaryocyte colony formation in vitro.

Tissue specificity

Expressed in lung. Expressed at low levels in heart, placenta and kidney. Expressed in mesothelial cells. Highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level).

Involvement in disease

Note=Antibodies against MSLN are detected in patients with mesothelioma and ovarian cancer.

Sequence similarities

Belongs to the mesothelin family.

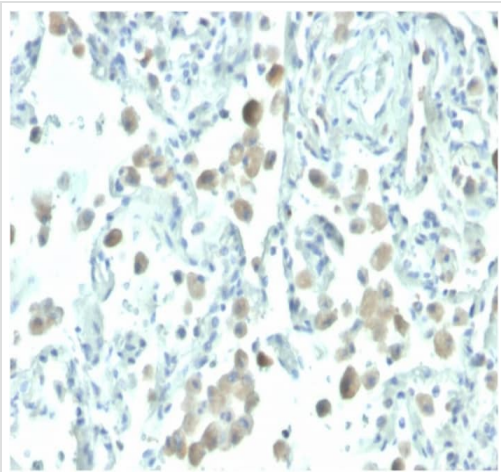
Post-translational modifications

Both MPF and the cleaved form of mesothelin are N-glycosylated.
Proteolytically cleaved by a furin-like convertase to generate megakaryocyte-potentiating factor (MPF), and the cleaved form of mesothelin.

Cellular localization

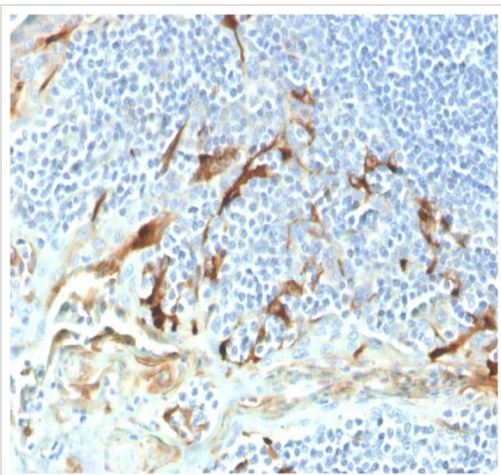
Secreted and Cell membrane. Golgi apparatus.

Images



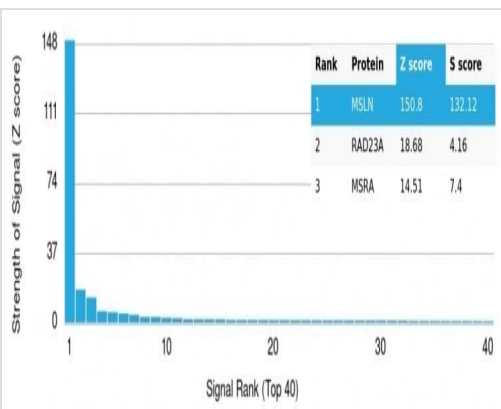
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-Mesothelin antibody [MSLN/2131] (ab271813)

Formalin-fixed, paraffin-embedded human lung stained for mesothelin using ab271813 at 4µg/mL in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-Mesothelin antibody [MSLN/2131] (ab271813)

Formalin-fixed, paraffin-embedded human endometrial carcinoma stained for mesothelin using ab271813 at 4µg/mL in immunohistochemical analysis.



Protein Array - Biotin Anti-Mesothelin antibody [MSLN/2131] (ab271813)

Analysis of Protein Array containing more than 19,000 full-length human proteins using ab271813

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended

target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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