

Mouse anti-Human MSLN / Mesothelin Monoclonal Antibody | anti-MSLN antibody

Mouse Monoclonal [clone MN-1] (IgG) to Human MSLN / Mesothelin

CATALOG # AAA12374	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

MSLN / Mesothelin; Monoclonal Antibody; Mouse Monoclonal [clone MN-1] (IgG) to Human MSLN / Mesothelin; Anti-MSLN / Mesothelin Antibody (Extracellular Domain; clone MN-1) IHC-plus; MSLN; CAK1 antigen; MPF; SMRP; Mesothelin; CAK1; Human MSLN; anti-MSLN antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	MN-1
Specificity	Cross reactivity with homologues from other sources has not been tested.
Purity/Purification	Protein A Purified
Form/Format	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide, sterile filtered
Concentration	1 mg/ml (varies by lot)
Sequence Length	630
Applicable Applications for anti-MSLN antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Application Notes	ELISA (1:10000 - 1:50000), IHC-P (15 ug/ml), WB (1:1000) Optimal dilution to be determined by the researcher.
Target Species	Human
Immunogen Description	This antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to the extracellular domain of human mesothelin.
Usage	This antibody has been tested for use in immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 40 kD in size corresponding to mature mesothelin by western blotting in the appropriate cell lysate or extract. For immunohistochemistry, archival PEFF human tissues were deparaffinized followed by hydration. Antigen-retrieval is recommended. Block tissues with 1% BSA in PBS for 30 min at 23 degree C. Antibodies are diluted in 1% BSA and reacted with tissue for 60 min at room temperature.
Immunogen Species	MSLN/Mesothelin antibody was raised against Human
Immunogen Type	Recombinant protein
Immunogen	MSLN / Mesothelin antibody was raised against this antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to the extracellular domain of human mesothelin.
Antigen Modification	Extracellular Domain

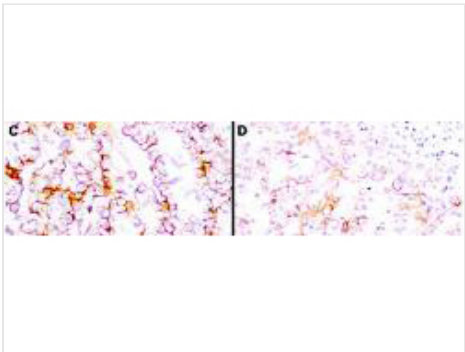
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Short term 4 degree C, long term aliquot and store at -20 degree C, avoid freeze thaw cycles.

IMAGES



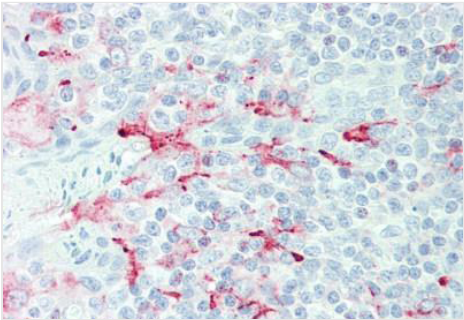
WB (Western Blot)

Anti-Mesothelin Antibodies - Immunohistochemistry. Immunohistochemistry using anti-mesothelin antibodies to detect mesothelin in PEF human tissue sections treated by antigen retrieval methods. Anti-mesothelin primary antibodies were used to label these sections as follows: C, MAb MB; and D, MAb MN. Reprinted with permission from Clin. Cancer Res. 11(16):5840-6.



IHC (Immunohistochemistry)

Anti-Mesothelin Antibodies - Immunohistochemistry. Immunohistochemistry using anti-mesothelin antibodies to detect mesothelin in PEF human tissue sections treated by antigen retrieval methods. Anti-mesothelin primary antibodies were used to label these sections as follows: C, MAb MB; and D, MAb MN. Reprinted with permission from Clin. Cancer Res. 11(16):5840-6.



IHC (Immunohistochemistry)

Anti-MSLN / Mesothelin antibody IHC staining of human tonsil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 15 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-MSLN antibody	This gene encodes a preproprotein that is cleaved into two products, megakaryocyte potentiating factor and mesothelin. Alternative splicing results in multiple transcript variants. Mesothelin is a cell surface differentiation antigen found in mesothelial cells, mesotheliomas and ovarian cancers. Although the function of mesothelin is unknown, it may play a role in cellular adhesion. Three transcript variants have been described.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	53988380
NCBI GeneID	10232
NCBI Accession #	NP_037536.2
NCBI GenBank Nucleotide #	NM_013404.4
UniProt Accession #	Q13421; Q14859; Q4VQD5; Q96GR6; Q96KJ5; Q9BR17; Q9BTR2; Q9UCB2; Q9UK57; D3DU65
Molecular Weight	67,940 Da
NCBI Official Full Name	mesothelin isoform 2 preproprotein
NCBI Official Synonym Full Names	mesothelin
NCBI Official Symbol	MSLN
NCBI Official Synonym Symbols	MPF; SMRP

NCBI Protein Information	mesothelin; CAK1 antigen; megakaryocyte potentiating factor; soluble MPF mesothelin related protein; pre-pro-megakaryocyte-potentiating factor
UniProt Protein Name	Mesothelin
UniProt Gene Name	MSLN
UniProt Synonym Gene Names	MPF; MPF
UniProt Entry Name	MSLN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/msln-mesothelin-antibody-clone-mn-1-immunohistochemistry-western-blot-elisa/12374>