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anti-Mesothelin antibody (Extracellular, Extracellular Domain)





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Quantity:	100 μg
Target:	Mesothelin (MSLN)
Binding Specificity:	Extracellular, Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Mesothelin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	This antibody was produced in mice by repeated immunizations with a recombinant protein
Immunogen:	This antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to the extracellular domain of human mesothelin.
Immunogen:	
Immunogen: Clone:	corresponding to the extracellular domain of human mesothelin.
	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein
Clone:	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein MB-G10
Clone: Isotype:	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein MB-G10 IgG2a
Clone: Isotype:	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein MB-G10 IgG2a This antibody is directed against human mesothelin protein. This product was purified from
Clone: Isotype:	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein MB-G10 IgG2a This antibody is directed against human mesothelin protein. This product was purified from tissue culture supernatant fluid by Protein A chromatography. Cross reactivity with
Clone: Isotype: Specificity:	corresponding to the extracellular domain of human mesothelin. Immunogen Type: RecombinantProtein MB-G10 IgG2a This antibody is directed against human mesothelin protein. This product was purified from tissue culture supernatant fluid by Protein A chromatography. Cross reactivity with homologues from other sources has not been tested.

that composes the mature portion and an NH_2 -terminal 31-kDa fragment called megakaryocyte-potentiating factor that is released from the cell. Mesothelin is a tumor differentiation antigen present at low levels on a restricted set of normal adult tissues, such as mesothelium, but aberrantly over expressed in mesotheliomas, ovarian, and pancreatic cancers. The biological functions of mesothelin remain elusive. A recent study showed that mesothelin binds to MUC16/CA125, and that this interaction mediates cell adhesion, suggesting that there may be an important role for MUC16/CA125 and mesothelin in the metastatic spread of ovarian cancer.

Sterility:

Sterile filtered

Target Details

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Target:	Mesothelin (MSLN)	
Alternative Name:	Mesothelin (MSLN Products)	
Background:	Mesothelin is a glycosyl-phosphatidyl- inositol-anchored glycoprotein present on the cell	
	surface of various human solid tumors. The mesothelin (MSLN) gene encodes a 71-kDa	
	precursor protein that is processed to a 40-kDa glycosylphosphatidyl-inositol-anchored protein	
	that composes the mature portion and an NH ₂ -terminal 31-kDa fragment called	
	megakaryocyte-potentiating factor that is released from the cell. Mesothelin is a tumor	
	differentiation antigen present at low levels on a restricted set of normal adult tissues, such as	
	mesothelium, but aberrantly over expressed in mesotheliomas, ovarian, and pancreatic	
	cancers. The biological functions of mesothelin remain elusive. A recent study showed that	
	mesothelin binds to MUC16/CA125, and that this interaction mediates cell adhesion,	
	suggesting that there may be an important role for MUC16/CA125 and mesothelin in the	
	metastatic spread of ovarian cancer.	
	Synonyms: Mesothelian, MN, MB, Pre-pro-megakaryocyte-potentiating factor, CAK1 antigen	
Gene ID:	10232, 53988378	
UniProt:	Q13421	
Pathways:	EGFR Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Intracellular	
	Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway,	
	Carbohydrate Homeostasis, cAMP Metabolic Process, Regulation of G-Protein Coupled	
	Receptor Protein Signaling, Positive Regulation of Endopeptidase Activity, Regulation of	
	Carbohydrate Metabolic Process	

Application Details

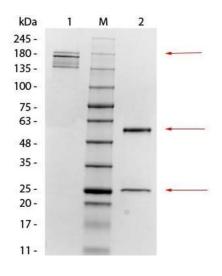
Application Notes:	This antibody has been tested for use in immunohistochemistry and western blotting. Specific		
	conditions for reactivity should be optimized by the end user. Expect a band approximately 40		
	kDa in size corresponding to mature mesothelin by western blotting in the appropriate cell		
	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° C. Antibodies are diluted in 1% BSA and reacted with tissue for 60 min at room		
	temperature.		
Comment:	Gene Name: MSLN		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1.0 mg/mL		
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2		
Preservative:	Sodium azide		
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		
Storage:	4 °C/-20 °C		
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C		
	or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after		
	standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted		
	liquid. Dilute only prior to immediate use. Expiration date is three (3) months from date of		
	opening.		
Expiry Date:	3 months		
Publications			
Product cited in:	Ho, Bera, Willingham, Onda, Hassan, FitzGerald, Pastan: "Mesothelin expression in human lung		
	cancer." in: Clinical cancer research: an official journal of the American Association for		
	Cancer Research, Vol. 13, Issue 5, pp. 1571-5, (2007) (PubMed).		
	Onda, Willingham, Nagata, Bera, Beers, Ho, Hassan, Kreitman, Pastan: "New monoclonal		

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antibodies to mesothelin useful for immunohistochemistry, fluorescence-activated cell sorting,

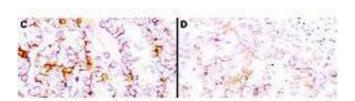
Western blotting, and ELISA." in: Clinical cancer research: an official journal of the American Association for Cancer Research, Vol. 11, Issue 16, pp. 5840-6, (2005) (PubMed).

Images



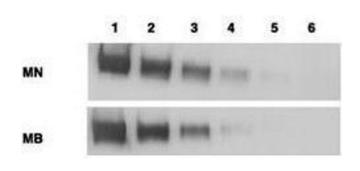
SDS-PAGE

Image 1. SDS-PAGE of Mouse anti-Mesothelin Monoclonal Antibody. Lane 1: Non-Reduced Mouse anti-Mesothelin Monoclonal Antibody. Lane 2: 3 μL OPAL Pre-stained Marker . Lane 3: Reduced Mouse anti-Mesothelin Monoclonal Antibody. Load: 1 μg per lane. Predicted/Observed size: Non-reduced at 160 kDa; Reduced at 55, 25 kDa.



Immunohistochemistry

Image 2. Immunohistochemistry using anti-mesothelin antibodies to detect mesothelin in PEFF 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.



Western Blotting

Image 3. Western blotting using anti-mesothelin antibodies to detect mesothelin-Fc at 100 ng (lane 1), 25 ng (lane 2), 6 ng (lane 3), 2 ng (lane 4) and 0.4 ng (lane 5). Lane 6 contains 50 ng of CDC25-Fc. Proteins were separated on 4-20% gradient gel by SDS-PAGE followed by transfer to PVDF membrane. Primary antibody was used at 1µg/ml followed by reaction with ALP goat anti-mouse IgG and BCIP/NBT substrate. Reprinted with permission fromClin.Cancer Res. 11(16):5840-6.