

For Research Use Only

# Mesothelin Monoclonal antibody

Catalog Number: 66404-1-Ig **2 Publications**



## Basic Information

Catalog Number: 66404-1-Ig	GenBank Accession Number: BC003512	Purification Method: Protein G purification
Concentration: 1500 ug/ml	GeneID (NCBI): 10232	CloneNo.: 2E3A4
Source: Mouse	UNIPROT ID: Q13421	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:50-1:500
Isotype: IgG1	Full Name: mesothelin	
Immunogen Catalog Number: AG23606	Calculated MW: 69 kDa Observed MW: 69 kDa, 40 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : HeLa cells, SW 1990 cells, HGC-27 cells, MKN-45 cells
Species Specificity: human	IHC : human ovary tumor tissue,
Cited Species: human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Mesothelin (MSLN) is a 40kDa GPI-anchored surface glycoprotein that is expressed on pleural and peritoneal mesothelial cells, but not in other non-neoplastic tissues. The mesothelin gene encodes a 69-71kDa precursor protein that is processed to a 40kDa membrane-bound protein termed mesothelin and a 31kDa shed fragment called megakaryocyte-potentiating factor (MPF) that is released from the cell. Mesothelin is a tumor differentiation antigen present at low levels on a restricted set of normal adult tissues (e.g. mesothelium), and is expressed at high levels in mesotheliomas, as well as ovarian, pancreatic, and lung cancers. Mesothelin may be a new target for immunotherapy (PMID: 20922056, 18691948, 15217923).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yunfei Lu	40050872	J Transl Med	WB,IHC
Shengkai Xia	38570866	J Exp Clin Cancer Res	IHC

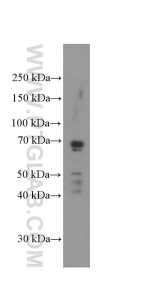
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

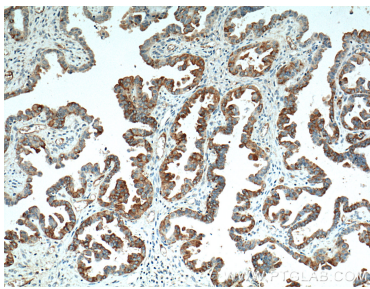
For technical support and original validation data for this product please contact:  
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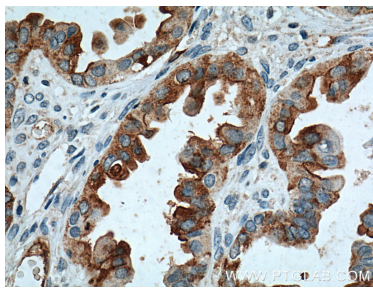
Selected Validation Data



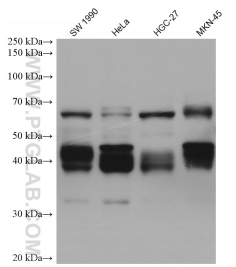
HeLa cells were subjected to SDS PAGE followed by western blot with 66404-1-Ig (Mesothelin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66404-1-Ig (Mesothelin antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66404-1-Ig (Mesothelin antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66404-1-Ig (Mesothelin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.