

For Research Use Only

IFIH1/MDA5 Monoclonal antibody

Catalog Number: 66770-1-Ig **7 Publications**



Basic Information

Catalog Number: 66770-1-Ig	GenBank Accession Number: BC111750	Purification Method: Protein G purification
Size: 150ul, Concentration: 1200 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 64135	CloneNo.: 3D8B11
Source: Mouse	UNIPROT ID: Q9BYX4	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000
Isotype: IgG1	Full Name: interferon induced with helicase C domain 1	
Immunogen Catalog Number: AG17448	Calculated MW: 1025 aa, 117 kDa	
	Observed MW: 117-125 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IF	WB: MDA-MB-468 cells, HepG2 cells, THP-1 cells, Jurkat cells, Daudi cells, Raji cells, T-47D cells
Species Specificity: Human	IHC: human liver cancer tissue, human kidney tissue
Cited Species: human, pig, bovine	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

IFIH1 (Interferon-induced helicase C domain-containing protein 1) is a putative RNA helicase that is upregulated in response to treatment with IFNB or IFNB and MEZ. It is also named as MDA5 and RH116. Ectopic expression of MDA5 in melanoma cells resulted in reduced colony formation, suggesting an interaction of the CARD and apoptotic signal molecules. Functional analysis indicated that MDA5 is an RNA-dependent ATPase. IFIH1 has an apparent molecular mass of 117-130 kDa, and always other bands (70 kDa and 90 kDa) can be detected as cleaved products (PMID: 17267501).

Notable Publications

Author	Pubmed ID	Journal	Application
Yumei Han	33328314	J Virol	WB
Shujuan Xu	34922148	Vet Microbiol	WB
Lin Lv	36544767	Front Immunol	WB

Storage

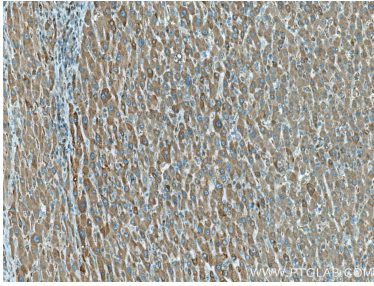
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

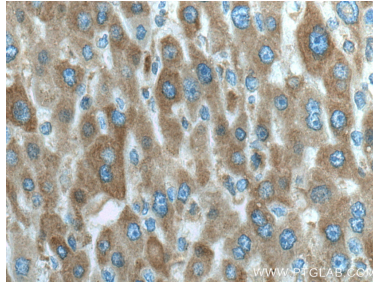
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



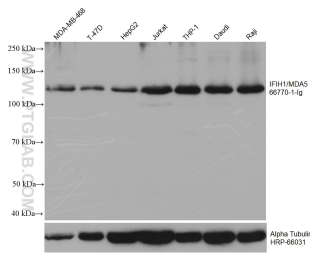
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66770-1-Ig (IFIH1/MDA5 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66770-1-Ig (IFIH1/MDA5 antibody) at dilution of 1:500 (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 66770-1-Ig (IFIH1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66770-1-Ig (IFIH1/MDA5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.