

For Research Use Only

IFIH1/MDA5 Monoclonal antibody

Catalog Number: 66770-1-Ig

Featured Product

8 Publications



Basic Information

Catalog Number:

66770-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17448

GenBank Accession Number:

BC111750

GeneID (NCBI):

64135

UNIPROT ID:

Q9BYX4

Full Name:

interferon induced with helicase C domain 1

Calculated MW:

1025 aa, 117 kDa

Observed MW:

117-125 kDa

Purification Method:

Protein G purification

CloneNo.:

3D8B11

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:250-1:1000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse, 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

Positive Controls:

WB : MDA-MB-468 cells, HepG2 cells, THP-1 cells, Jurkat cells, Daudi cells, Raji cells, T-47D cells

IHC : human liver cancer tissue, human kidney tissue

FC (Intra) : Jurkat cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

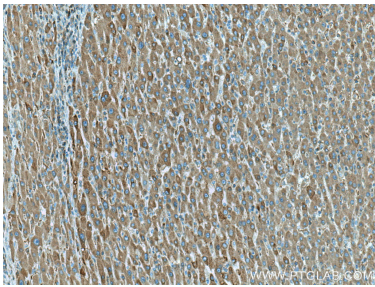
T: 4006900926

E: Proteintech-CN@ptglab.com

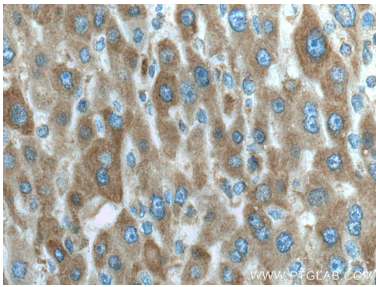
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

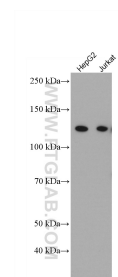
Selected Validation Data



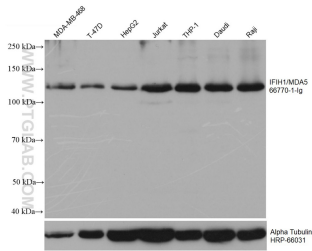
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66770-1-Ig (IFIH1/MDA5 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



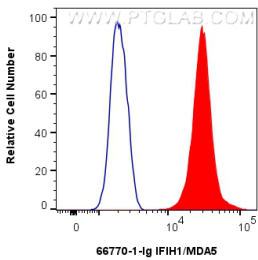
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66770-1-Ig (IFIH1/MDA5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug IFIH1/MDA5 Monoclonal antibody (66770-1-Ig, Clone:3D8B11) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).