

For Research Use Only

IFIH1/MDA5 Polyclonal antibody

Catalog Number: 21775-1-AP

Featured Product

48 Publications



Basic Information

Catalog Number:

21775-1-AP

Size:

150ul, Concentration: 650 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16467

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IP, IF, RIP, IHC

Species Specificity:

human

Cited Species:

human, monkey, pig

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: Jurkat cells, Raji cells

IP: Jurkat cells,

IHC: human skeletal muscle tissue,

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 |
|-----------------|-----------|-----------------------------|-------------|
| Jiangang Zheng | 34587973 | BMC Vet Res | WB |
| Matthew Charman | 34621686 | Front Cell Infect Microbiol | WB |
| Wei Zhang | 25228491 | J Gen Virol | 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

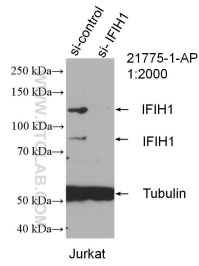
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

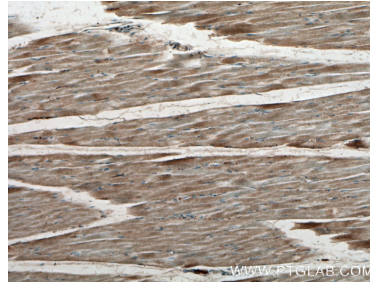
E: proteintech@ptglab.com
W: ptglab.com

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

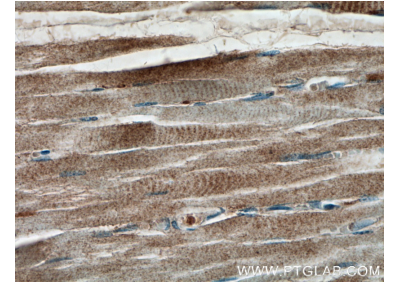
Selected Validation Data



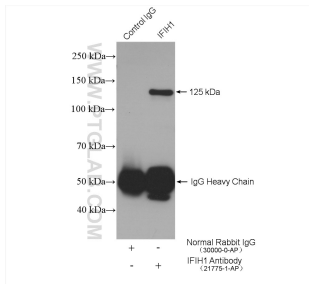
WB result of IFIH1 antibody (21775-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IFIH1 transfected Jurkat cells.



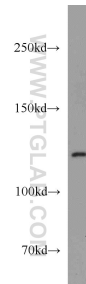
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 21775-1-AP (IFIH1 antibody) at dilution of 1:200 (under 10x lens).



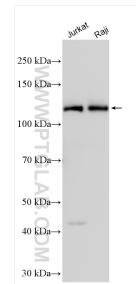
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 21775-1-AP (IFIH1 antibody) at dilution of 1:200 (under 40x lens).



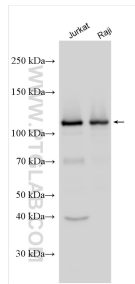
IP result of anti-IFIH1/MDA5 (IP:21775-1-AP, 4 μ g; Detection:21775-1-AP 1:300) with Jurkat cells lysate 4000 μ g.



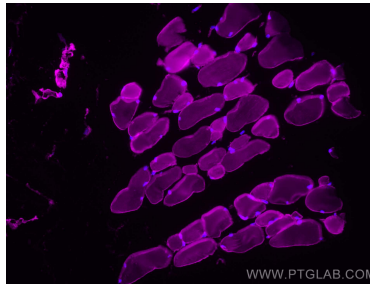
Jurkat cells were subjected to SDS PAGE followed by western blot with 21775-1-AP (IFIH1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 21775-1-AP (IFIH1/MDA5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 21775-1-AP (IFIH1/MDA5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using IFIH1/MDA5 antibody (21775-1-AP) at dilution of 1:200 and CoraLite® 647-conjugated AffiniPure F(ab).