

ITPA Polyclonal antibody

Catalog Number: 16134-1-AP

3 Publications

Basic Information

Catalog Number:

16134-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9128

GenBank Accession Number:

BC010138

GeneID (NCBI):

3704

UNIPROT ID:

Q9BY32

Full Name:

inosine triphosphatase (nucleoside triphosphate pyrophosphatase)

Calculated MW:

194 aa, 21 kDa

Observed MW:

22 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:20-1:200

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

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 : K-562 cells, HeLa cells, HT-1080 cells, human liver tissue, mouse heart tissue, mouse liver tissue, NIH/3T3 cells, rat liver tissue

IP : mouse liver tissue,

IHC : human heart tissue, human lung cancer tissue, mouse heart tissue

IF/ICC : MCF-7 cells,

Background Information

ITPA (Inosine triphosphate pyrophosphatase) catalyzes the pyrophosphohydrolysis of inosine triphosphate (ITP) to inosine monophosphate (IMP). It expresses in the cytoplasm (PMID:11278832). It can be detected a band of 44 kDa as a homodimer in the western blot (PMID:19631656) though its predicted size is 21 kDa. This protein has two isoforms with the molecular weight of 20 kDa and 21 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Hill Amanda A	23770441	Biochimie	WB
Herting Greg G	19914375	Biochim Biophys Acta	WB
Jun Dai	27779101	Oncotarget	IHC

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

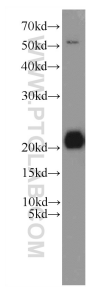
For technical support and original validation data for this product please contact:

T: 4006900926

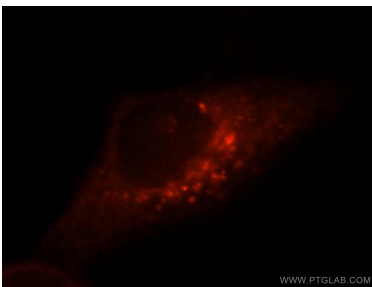
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

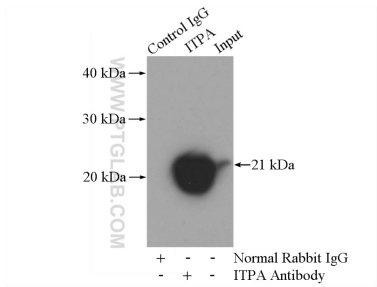
Selected Validation Data



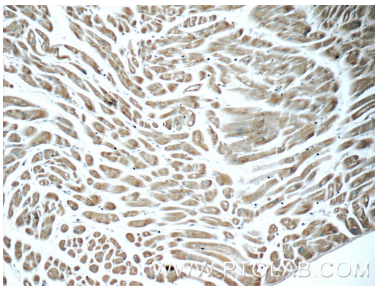
K-562 cells were subjected to SDS PAGE followed by western blot with 16134-1-AP (ITPA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



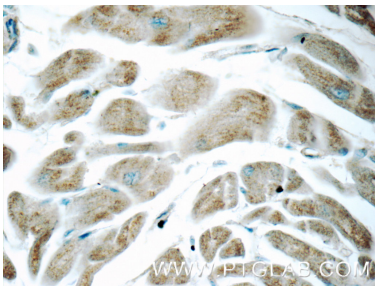
Immunofluorescent analysis of MCF-7 cells, using ITPA antibody 11640-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



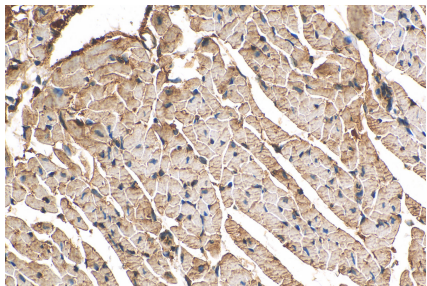
IP result of anti-ITPA (IP:16134-1-AP, 4ug; Detection:16134-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 16134-1-AP (ITPA Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 16134-1-AP (ITPA Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16134-1-AP (ITPA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).