

For Research Use Only

ITPA Polyclonal antibody

Catalog Number: 16134-1-AP

3 Publications



Basic Information

Catalog Number:

16134-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 180 ug/ml by Bradford method using BSA as the standard;

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 ug 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 21kd. This protein has two isoforms with the molecular weight of 20KDa and 21KDa.

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

*** 20ul sizes contain 0.1% BSA

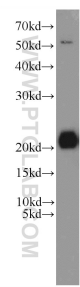
For technical support and original validation data for this product please contact:

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

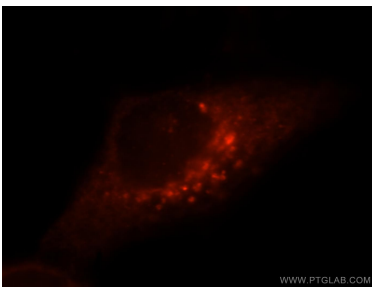
E: proteintech@ptglab.com
W: ptglab.com

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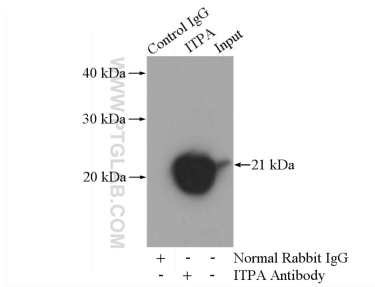
Selected Validation Data



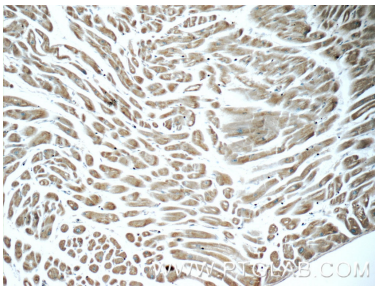
K-562 cells were subjected to SDS PAGE followed by western blot with 16134-1-AP (ITPA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



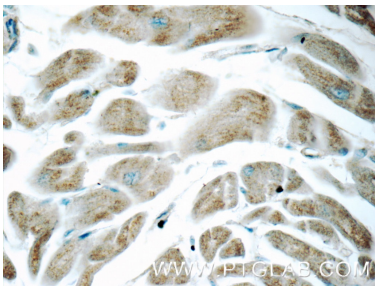
Immunofluorescent analysis of MCF-7 cells, using ITPA antibody 11640-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



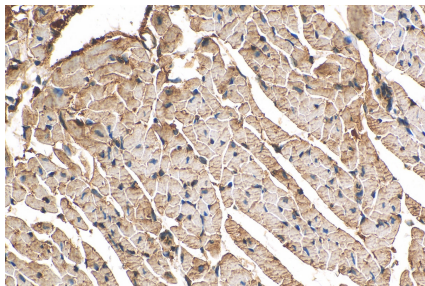
IP result of anti-ITPA (IP:16134-1-AP, 4ug; Detection:16134-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



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).