

For Research Use Only

# ITPA Polyclonal antibody

Catalog Number: 16134-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 16134-1-AP	<b>GenBank Accession Number:</b> BC010138	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 180 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3704	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	<b>IHC 1:20-1:200</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 194 aa, 21 kDa	
<b>Immunogen Catalog Number:</b> AG9128	<b>Observed MW:</b> 22 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB :</b> K-562 cells, HeLa cells, HT-1080 cells, human liver tissue, mouse heart tissue, mouse liver tissue, NIH/3T3 cells, rat liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> mouse liver tissue,
<b>Cited Species:</b> human	<b>IHC :</b> human heart tissue, human lung cancer tissue, mouse heart tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF :</b> 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

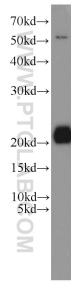
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

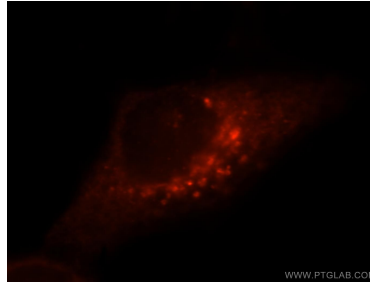
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

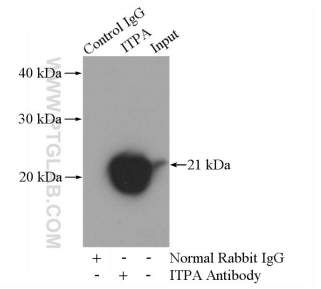
## Selected Validation Data



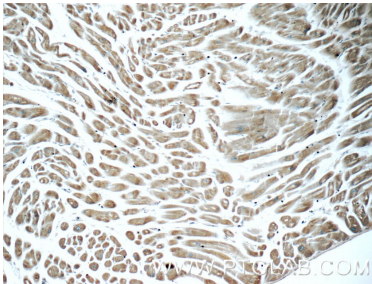
K-562 cells were subjected to SDS PAGE followed by western blot with 16134-1-AP (ITPA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



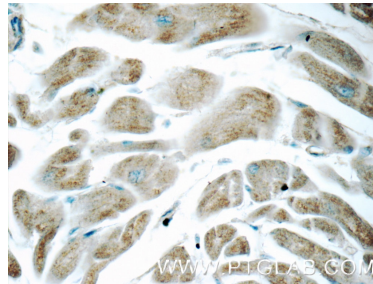
Immunofluorescent analysis of MCF-7 cells, using ITPA antibody 11640-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



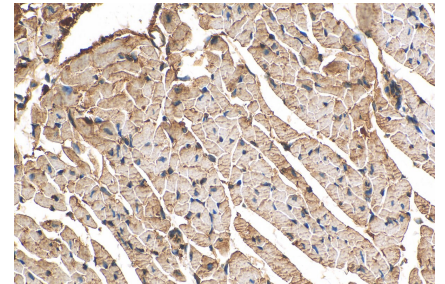
IP Result of anti-ITPA (IP:16134-1-AP, 4ug; Detection:16134-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



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).