

# TIP47 Polyclonal antibody

Catalog Number: 10694-1-AP

31 Publications

## Basic Information

## Catalog Number:

10694-1-AP

## Size:

650 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG1028

## GenBank Accession Number:

BC007566

## GeneID (NCBI):

10226

## UNIPROT ID:

O60664

## Full Name:

mannose-6-phosphate receptor  
binding protein 1

## Calculated MW:

47 kDa

## Observed MW:

47 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

IF 1:20-1:200

## Applications

## Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

IF, IHC, WB

## Species Specificity:

human, mouse

## Cited Species:

human, rat, mouse

**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 : HEK-293 cells, Jurkat cells, 3T3-L1 cells, HeLa  
cells

IP : HeLa cells,

IHC : mouse liver tissue, mouse ovary tissue

IF : MEF cells, oleic acid treated HeLa cells

## Background Information

Mannose 6-phosphate receptors (M6PRs) transport newly synthesized lysosomal hydrolases from the Golgi to prelysosomes and then return to the Golgi for another round of transport. M6PRBP1 (mannose-6-phosphate receptor binding protein 1), also known as TIP47, PLIN3 or PP17, interacts with the cytoplasmic domains of both cation-independent and cation-dependent M6PRs, and is required for endosome-to-Golgi transport. In addition to M6PR recycling, M6PRBP1 plays a role in lipid droplet biogenesis, and is also implicated in rhodopsin photobleaching and viral infection. M6PRBP1 has been found to be expressed in a variety of human tissues (including colon, liver and lung parenchyma, mammary gland, and skin) and is overexpressed in certain cancer cell lines. It binds to lipid droplets and also occurs in cytosol and on endosomal membranes.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinyu Bao	36107452	J Mol Cell Biol	WB
Fangjun Yu	34493722	Nat Commun	WB
Takahiro Seki	30184469	Neurobiol Dis	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

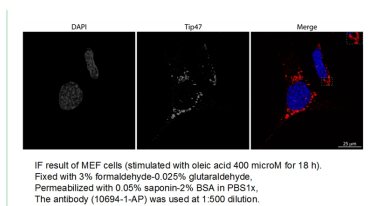
For technical support and original validation data for this product please contact:

T: 4006900926

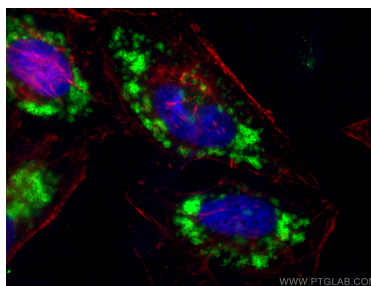
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Group brand and is not available to purchase from any  
other manufacturer.**

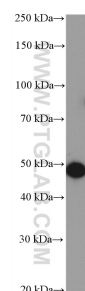
## Selected Validation Data



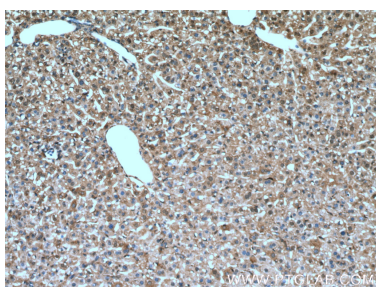
IF result of anti-TIP47 (10694-1-AP,1:500) with MEF cell by Dr.Hector Alex Saka.



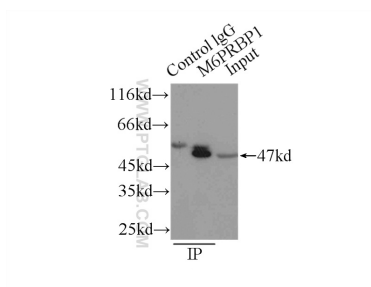
Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using TIP47 antibody (10694-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). F-actin was stained with CL594-phalloidin.



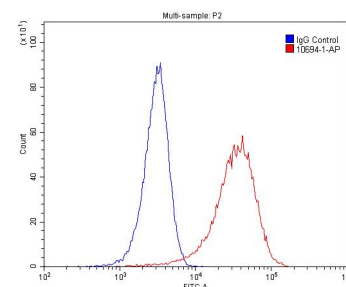
3T3-L1 cells were subjected to SDS PAGE followed by western blot with 10694-1-AP (TIP47 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



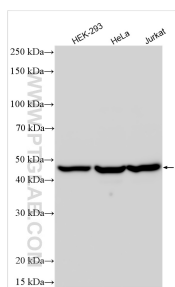
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 10694-1-AP (TIP47 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



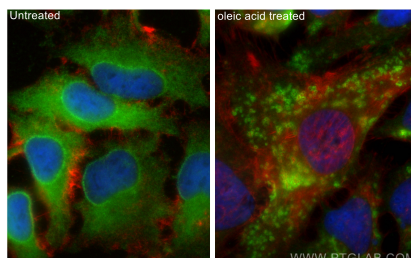
IP result of anti-TIP47 (IP:10694-1-AP, 3ug; Detection:10694-1-AP 1:1000) with HeLa cells lysate 1000ug.



1x10<sup>6</sup> HeLa cells were stained with 0.2ug TIP47 antibody (10694-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.



Various lysates were subjected to SDS PAGE followed by western blot with 10694-1-AP (TIP47 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using TIP47 antibody (10694-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).