

For Research Use Only

Perilipin 3/TIP47 Polyclonal antibody

Catalog Number: 10694-1-AP

Featured Product

40 Publications



Basic Information

Catalog Number:

10694-1-AP

Size:

650 ug/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 ug for 1.0-3.0 mg of total
protein lysate

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, rat, goat

Positive Controls:

WB : HEK-293 cells, Jurkat cells, HeLa cells

IP : HeLa cells,

IF/ICC : 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 parenchyme, 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
Takahiro Seki	30184469	Neurobiol Dis	WB
Cédric Langhi	25418138	Hepatology	WB
Elodie Mailler	34799570	Nat Commun	IF

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:

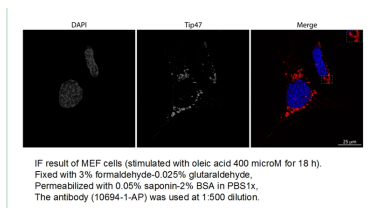
T: 4006900926

E: Proteintech-CN@ptglab.com

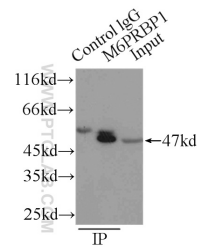
W: ptgcn.com

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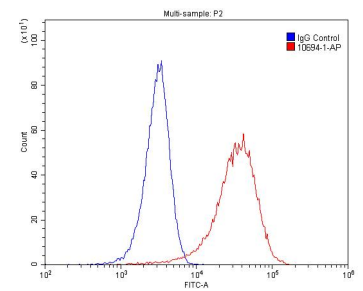
Selected Validation Data



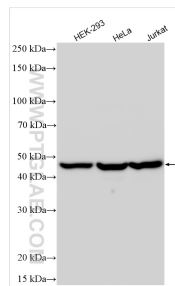
IF result of anti-TIP47 (10694-1-AP,1:500) with MEF cell by Dr.Hector Alex Saka.



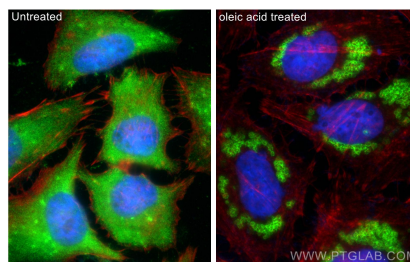
IP result of anti-TIP47 (IP:10694-1-AP, 3ug; Detection:10694-1-AP 1:1000) with HeLa cells lysate 1000ug.



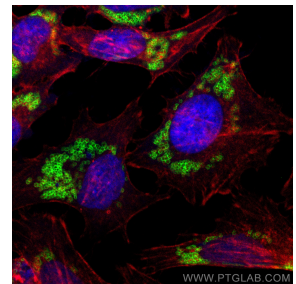
1X10⁶ HeLa cells were stained with 0.2ug TIP47 antibody (10694-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.



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 1:200 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



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 Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).