

For Research Use Only

TOMM40 Polyclonal antibody

Catalog Number: 18409-1-AP

Featured Product

115 Publications



Basic Information

Catalog Number:

18409-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13065

GenBank Accession Number:

BC017224

GeneID (NCBI):

10452

UNIPROT ID:

O96008

Full Name:

translocase of outer mitochondrial membrane 40 homolog (yeast)

Calculated MW:

38 kDa

Observed MW:

38 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:50000

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

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

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

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, monkey, bovine

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, HeLa cells, HepG2 cells, mouse kidney tissue, rat kidney tissue

IP : mouse liver tissue,

IHC : human liver tissue, mouse heart tissue

IF/ICC : HepG2 cells, HeLa cells

FC (Intra) : HepG2 cells,

Background Information

The translocase of outer mitochondria membrane 40 (TOMM40, also known as TOM40), located in the center of the TOM complex, is a channel-forming subunit of translocase. It can facilitate the fluid movement of preproteins into the mitochondria by associating with TOMM20. TOMM40 plays a role in the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) by forming a complex with BCAP31 and mediating the translocation of Complex I components from the cytosol to the mitochondria (PMID: 31206022). TOMM40 has been reported to be associated with late-onset neurodegenerative diseases such as Alzheimer's disease and Parkinson's disease.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------------|-----------|-----------------|-------------|
| Emi Ogasawara | 32946932 | Pharmacol Res | WB |
| Christopher Lowden | 34525369 | Cell Rep | WB |
| Nathalie Dorison | 32933822 | Mol Genet Metab | IF |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

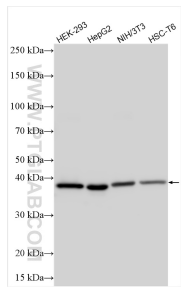
T: 4006900926

E: Proteintech-CN@ptglab.com

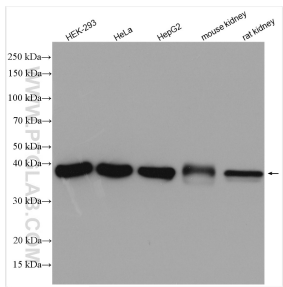
W: ptgcn.com

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

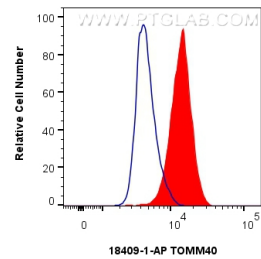
Selected Validation Data



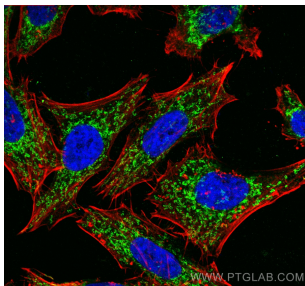
Various lysates were subjected to SDS PAGE followed by western blot with 18409-1-AP (TOMM40 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



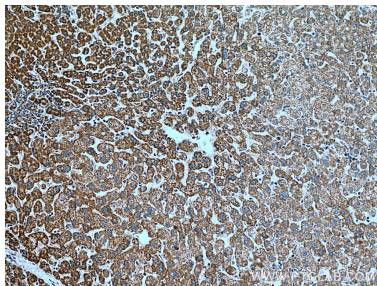
Various lysates were subjected to SDS PAGE followed by western blot with 18409-1-AP (TOMM40 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



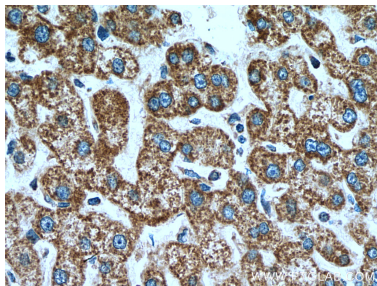
1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug TOMM40 Polyclonal antibody (18409-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



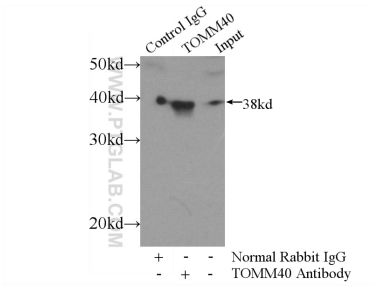
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TOMM40 antibody (18409-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), (CL594-Phalloidin, red).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18409-1-AP (TOMM40 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18409-1-AP (TOMM40 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TOMM40 (IP:18409-1-AP, 4ug; Detection:18409-1-AP 1:1000) with mouse liver tissue lysate 4000ug.