

For Research Use Only

TRAP1 Monoclonal antibody

Catalog Number: 67693-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

67693-1-Ig

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG0400

GenBank Accession Number:

BC000406

GeneID (NCBI):

10131

UNIPROT ID:

Q12931

Full Name:

TNF receptor-associated protein 1

Calculated MW:

80 kDa

Observed MW:

70-75 kDa

Purification Method:

Protein G purification

CloneNo.:

1H5D4

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:250-1:1000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

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 : LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells

IP : K-562 cells,

IHC : mouse brain tissue,

IF/ICC : HeLa cells,

Background Information

TNF receptor-associated protein 1 (TRAP1, synonym: HSP75) is a member of the HSP90 family of molecular chaperones, and is expressed ubiquitously and located to mitochondria. A unique LxCxE motif in HSP75, but not in other HSP90 family members, appears to be important for binding to the simian virus 40 T-antigen-binding domain of hypophosphorylated Rb. Data also suggests that suppression of the expression of TRAP1 in mitochondria plays an important role in the induction of apoptosis caused via formation of reactive oxygen species (ROS).

Notable Publications

Author	Pubmed ID	Journal	Application
Bo Wang	38008382	Virology	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

*** 20ul sizes contain 0.1% BSA

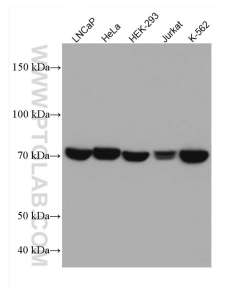
For technical support and original validation data for this product please contact:

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

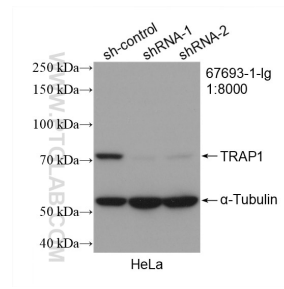
E: proteintech@ptglab.com
W: ptglab.com

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

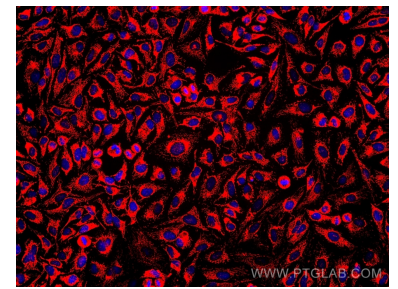
Selected Validation Data



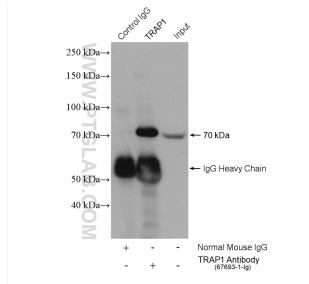
Various lysates were subjected to SDS PAGE followed by western blot with 67693-1-Ig (TRAP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



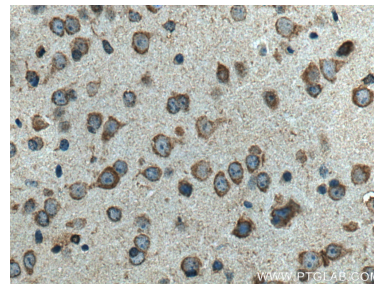
WB result of TRAP1 antibody (67693-1-Ig; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRAP1 transfected HeLa cells.



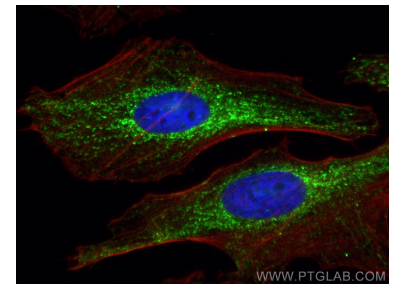
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TRAP1 antibody (67693-1-Ig, Clone: 1H5D4) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



IP result of anti-TRAP1 (IP:67693-1-Ig, 5ug; Detection:67693-1-Ig 1:1000) with K-562 cells lysate 1760 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67693-1-Ig (TRAP1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TRAP1 antibody (67693-1-Ig, Clone: 1H5D4) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).