

For Research Use Only

TRAP1 Monoclonal antibody

Catalog Number: 67693-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number: 67693-1-Ig	GenBank Accession Number: BC000406	Purification Method: Protein G purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10131	CloneNo.: 1H5D4
Source: Mouse	Full Name: TNF receptor-associated protein 1	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB
Isotype: IgG1	Calculated MW: 80 kDa	IHC 1:250-1:1000
Immunogen Catalog Number: AG0400	Observed MW: 70-75 kDa	IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, IP, WB, 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: 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

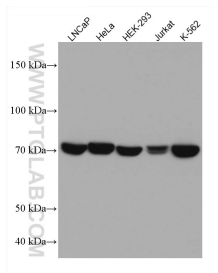
For technical support and original validation data for this product please contact:

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

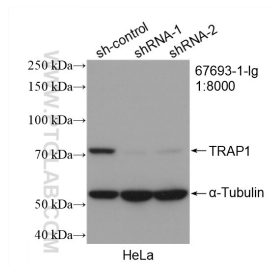
E: proteintech@ptglab.com
W: ptglab.com

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

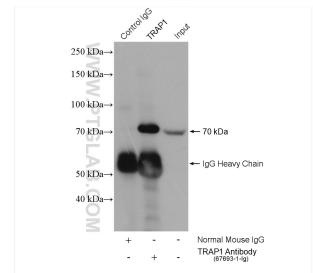
Selected Validation Data



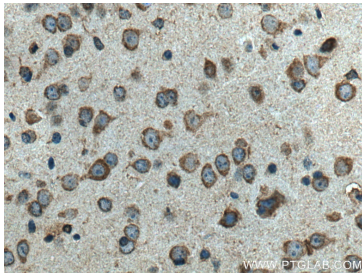
Various lysates were subjected to SDS PAGE followed by western blot with 67693-1-Ig (TRAP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



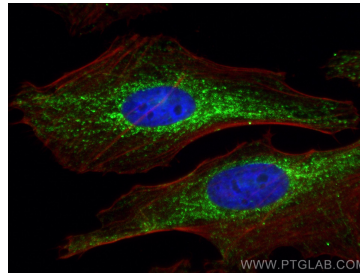
WB result of TRAP1 antibody (67693-1-Ig; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRAP1 transfected HeLa cells.



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).