

For Research Use Only

# TRAP1 Polyclonal antibody

Catalog Number:10325-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

10325-1-AP

### Size:

150ul , Concentration: 500 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### 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:

66-70 kDa, 60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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** : HL-60 cells, HeLa cells, mouse heart tissue, Raji cells, HepG2 cells, K-562 cells, NIH/3T3 cells

**IHC** : human heart tissue,

**IF/ICC** : HepG2 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
Hongyu Sun	36233059	Int J Mol Sci	WB
Jun Ma	34820015	Oncol Lett	WB
Katsutaka Mitachi	33753854	Sci Rep	IHC

## 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

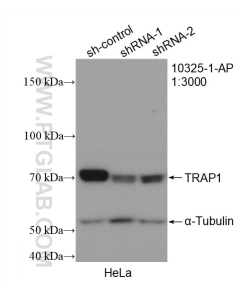
For technical support and original validation data for this product please contact:

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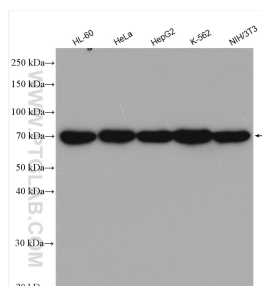
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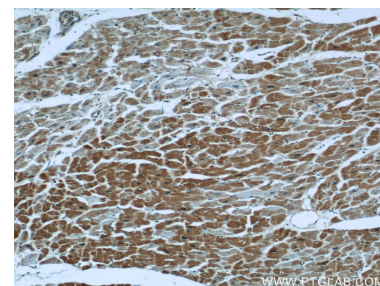
## Selected Validation Data



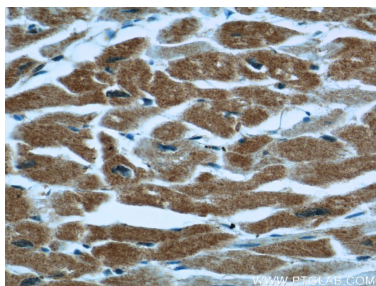
WB result of TRAP1 antibody (10325-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRAP1 transfected HeLa cells.



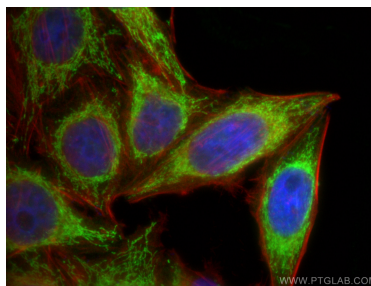
Various lysates were subjected to SDS PAGE followed by western blot with 10325-1-AP (TRAP1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 10325-1-AP (TRAP1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 10325-1-AP (TRAP1 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TRAP1 antibody (10325-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).