

**TRAP1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14128b****Specification**

---

**TRAP1 Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q12931</a>
Other Accession	<a href="#">NP_057376.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	80110
Antigen Region	542-570

**TRAP1 Antibody (C-term) - Additional Information****Gene ID** 10131**Other Names**

Heat shock protein 75 kDa, mitochondrial, HSP 75, TNFR-associated protein 1, Tumor necrosis factor type 1 receptor-associated protein, TRAP-1, TRAP1, HSP75

**Target/Specificity**

This TRAP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 542-570 amino acids from the C-terminal region of human TRAP1.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TRAP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRAP1 Antibody (C-term) - Protein Information****Name** TRAP1

**Synonyms** HSP75, HSPC5 {ECO:0000303|PubMed:1866360}

**Function** Chaperone that expresses an ATPase activity. Involved in maintaining mitochondrial function and polarization, downstream of PINK1 and mitochondrial complex I. Is a negative regulator of mitochondrial respiration able to modulate the balance between oxidative phosphorylation and aerobic glycolysis. The impact of TRAP1 on mitochondrial respiration is probably mediated by modulation of mitochondrial SRC and inhibition of SDHA.

**Cellular Location**

Mitochondrion. Mitochondrion inner membrane Mitochondrion matrix

**Tissue Location**

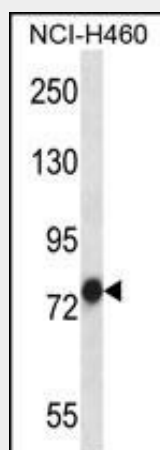
Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung, placenta and bladder. Expression is highly reduced in bladder cancer and renal cell carcinoma specimens compared to healthy tissues, but it is increased in other type of tumors

**TRAP1 Antibody (C-term) - Protocols**

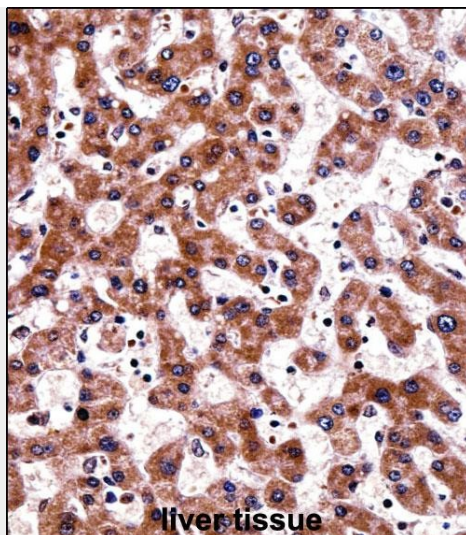
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TRAP1 Antibody (C-term) - Images**



TRAP1 Antibody (C-term) (Cat. #AP14128b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the TRAP1 antibody detected the TRAP1 protein (arrow).



TRAP1 Antibody (C-term) (AP14128b) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TRAP1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **TRAP1 Antibody (C-term) - Background**

HSP90 proteins are highly conserved molecular chaperones that have key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90 proteins normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. TRAP1 is a mitochondrial HSP90 protein. Other HSP90 proteins are found in cytosol (see HSP90AA1; MIM 140571) and endoplasmic reticulum (HSP90B1; MIM 191175) (Chen et al., 2005 [PubMed 16269234]).

#### **TRAP1 Antibody (C-term) - References**

Liu, D., et al. Cancer Lett. 296(2):194-205(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Nguyen, M.C., et al. Cancer Immunol. Immunother. 59(9):1313-1323(2010)  
Landriscina, M., et al. Cancer Res. 70(16):6577-6586(2010)  
Leav, I., et al. Am. J. Pathol. 176(1):393-401(2010)