

**TRAP1 Antibody**  
**Catalog # ASM10469****Specification****TRAP1 Antibody - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB, ICC                     |
| Primary Accession | <a href="#">Q12931</a>      |
| Other Accession   | <a href="#">NP_057376.2</a> |
| Host              | Rabbit                      |
| Reactivity        | Human, Mouse, Rat           |
| Clonality         | Polyclonal                  |

**Description**

Rabbit Anti-Human TRAP1 Polyclonal

**Target/Specificity**

Detects ~75 kDa, multiple isoforms.

**Other Names**

Heat shock protein 75 Antibody, Heat shock protein 75 kDa Antibody, Heat shock protein 75 kDa mitochondrial Antibody, HSP 75 Antibody, HSP 90L Antibody, HSP75 Antibody, HSP90L Antibody, mitochondrial Antibody, TNF receptor associated protein 1 Antibody, TNFR associated protein 1 Antibody, TNFR-associated protein 1 Antibody, TRAP 1 Antibody, TRAP-1 Antibody, Trap1 Antibody, TRAP1\_HUMAN Antibody, Tumor necrosis factor receptor associated protein Antibody, Tumor necrosis factor type 1 receptor associated protein Antibody, Tumor necrosis factor type 1 receptor-associated protein Antibody

**Immunogen**

Human recombinant TRAP1 (amino acids 1-59 removed - transit peptide)

**Purification**

Protein A Purified

**Storage**

-20°C

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

**Shipping Temperature**

Blue Ice or 4°C

**Certificate of Analysis**

1 µg/ml of SPC-209 was sufficient for detection of Trap-1 in 20 µg of Hela Cell lysate by ECL immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

**Cellular Localization**

Mitochondrion

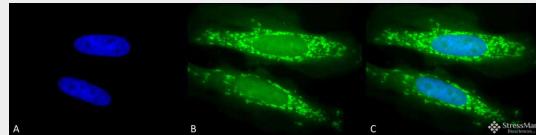
**TRAP1 Antibody - Protocols**

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

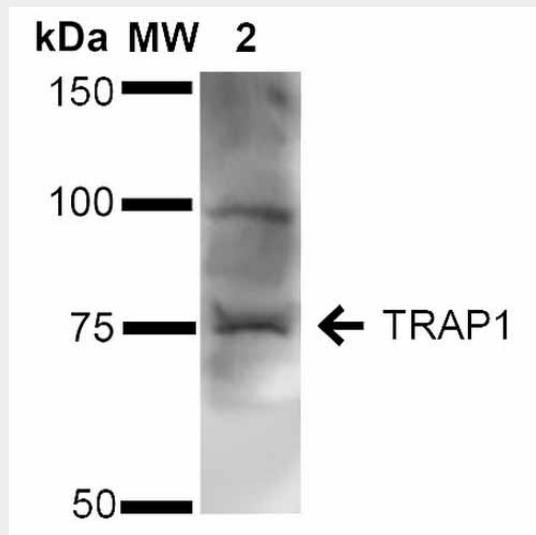
- [Western Blot](#)

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

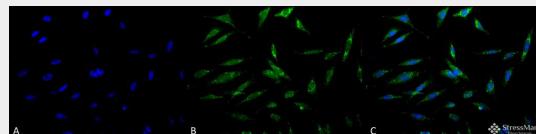
### TRAP1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469) at 1:120 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Mitochondrion. Mitochondrion inner membrane. Mitochondrion matrix. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-TRAP1 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.



Western blot analysis of Human Cervical Cancer cell lysates (HeLa) showing detection of ~75 kDa TRAP1 protein using Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469). Lane 1: Molecular Weight Ladder (MW). Lane 2: Human Cervical Cancer cell lysates (HeLa). Load: 12 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~75 kDa. Other Band(s): 100 kDa.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-TRAP1 Polyclonal Antibody (ASM10469) at 1:120 for 12

hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Mitochondrion. Mitochondrion inner membrane. Mitochondrion matrix. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-TRAP1 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

### **TRAP1 Antibody - Background**

The 90 kDa heat shock protein (HSP90) family of molecular chaperones is a highly conserved family of proteins that play an important physiological role. HSP90 is involved in numerous cellular processes but is best known for its association with signal transduction machinery. A recently cloned homolog of HSP90 is the tumor necrosis factor receptor-associated protein (TRAP1). Like HSP90, TRAP1 is found to be associated with numerous proteins involved in diverse actions (1, 2). Immunofluorescence data has shown TRAP1 to be localized in the mitochondria of mammalian cells. This observation and the fact that TRAP1 is shown to have a mitochondrial targeting presequence strongly implicates TRAP1 as a mitochondrial matrix protein (3).

### **TRAP1 Antibody - References**

1. Felts S.J., et al. (2000) J Biol Chem. 275(5): 3305-3312.
2. Costantino E., et al. (2009) Cancer Lett. 279(1): 39-46.
3. Cechetto J.D., Gupta R.S. (2000) Exp Cell Res. 260(1): 30-39.