

Datasheet for ABIN2482022
anti-TRAP1 antibody (AA 1-59) (HRP)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	TRAP1
Binding Specificity:	AA 1-59
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRAP1 antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human recombinant TRAP1 (amino acids 1-59 removed - transit peptide)
Specificity:	Detects ~75 kDa, multiple isoforms.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein A Purified

Target Details

Target:	TRAP1
Alternative Name:	TRAP1 (TRAP1 Products)
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

Target Details

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).

Gene ID: 10131

NCBI Accession: [NP_057376](#)

UniProt: [Q12931](#)

Application Details

Application Notes:

- WB (1:1000)
- ICC/IF (1:120)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2482022 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

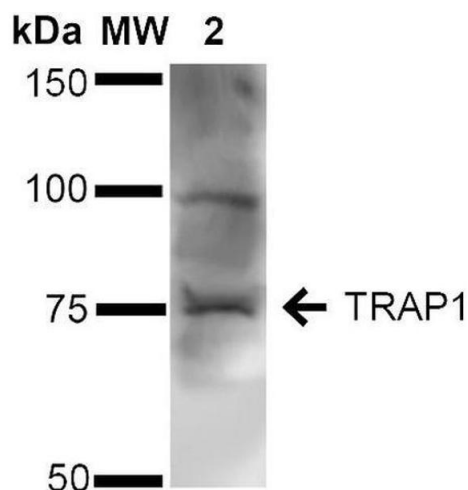
Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



Western Blotting

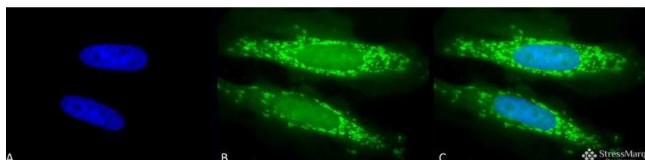
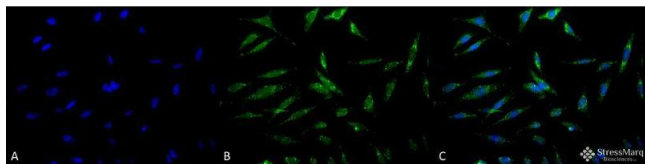
Image 1. Western blot analysis of Human Cervical Cancer cell lysates (HeLa) showing detection of ~75 kDa TRAP1 protein using Rabbit Anti-TRAP1 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Human Cervical Cancer cell lysates (HeLa). Load: 12 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-TRAP1 Polyclonal Antibody 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.

Immunofluorescence (fixed cells)

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

Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TRAP1 Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-TRAP1 Polyclonal Antibody 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.