Datasheet for ABIN2482019
anti-TRAP1 antibody (AA 1-59) (APC)

## 3 Images



## Overview

| Quantity: | $100 \mu \mathrm{~g}$ |
| :--- | :--- |
| Target: | TRAP1 |
| Binding Specificity: | AA 1-59 |
| Reactivity: | Human |
| Host: | Polyclonal |
| Clonality: | This TRAP1 antibody is conjugated to APC |
| Conjugate: | Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC) |
| Application: |  |

Product Details

| Immunogen: | Human recombinant TRAP1 (amino acids 1-59 removed - transit peptide) |
| :--- | :--- |
| Specificity: | Detects $\sim 75 \mathrm{kDa}$, multiple isoforms. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: |  |
| Target Details | TRAP1 |
| Target: | The 90 kDa heat shock protein (HSP90) family of molecular chaperones is a highly conserved |
| Alternative Name: | 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 beassociated 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) <br> - ICC/IF (1:120) <br> - optimal dilutions for assays should be determined by the user. |
| Comment: | $1 \mu \mathrm{~g} / \mathrm{ml}$ of ABIN2482019 was sufficient for detection of Trap-1 in $20 \mu \mathrm{~g}$ 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: | $1 \mathrm{mg} / \mathrm{mL}$ |
| 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: | $4^{\circ} \mathrm{C}$ |
| Storage Comment: | Conjugated antibodies should be stored at $4^{\circ} \mathrm{C}$ |



## Immunofluorescence (fixed cells)

Image 1. 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 $4^{\circ} \mathrm{C}$. 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 $42^{\circ} \mathrm{C}$ for 1 h .

## 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 $4^{\circ} \mathrm{C}$. 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 $42^{\circ} \mathrm{C}$ for 1 h .


## Western Blotting

Image 3. Western blot analysis of Human Cervical Cancer cell lysates (HeLa) showing detection of $\sim 75 \mathrm{kDa}$ TRAP1 protein using Rabbit Anti-TRAP1 Polyclonal Antibody. Lane 1: Molecular Weight Ladder (MW). Lane 2: Human Cervical Cancer cell lysates (HeLa). Load: $12 \mu \mathrm{~g}$. 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.

