Datasheet for ABIN3043536

# anti-TRAP1 antibody (AA 571-704)

2 Images

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 100 µg |
| Target: | TRAP1 |
| Binding Specificity: | AA 571-704 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TRAP1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

| | |
|---|---|
| Purpose: | Anti-TRAP1 Antibody Picoband® |
| Immunogen: | E.coli-derived human TRAP1 recombinant protein (Position: A571-H704). Human TRAP1 shares 91.7% and 94% amino acid (aa) sequence identity with mouse and rat TRAP1, respectively. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-TRAP1 Antibody Picoband® (ABIN3043536). Tested in IHC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

| | |
|---|---|
| Target: | TRAP1 |
| Alternative Name: | TRAP1 (TRAP1 Products) |
| Background: | Synonyms: Heat shock protein 75 kDa, mitochondrial,HSP 75,TNFR-associated protein 1,Tumor necrosis factor type 1 receptor-associated protein,TRAP-1,TRAP1,HSP75,<br>Tissue Specificity: Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung, placenta and bladder. Expression is higly reduced in bladder cancer and renal cell carcinoma specimens compared to healthy tissues, but it is increased in other type of tumors. .<br>Background: Heat shock protein 75 kDa, mitochondrial is a protein that in humans is encoded by the TRAP1 gene. It is mapped to 16p13.3. This gene encodes a mitochondrial chaperone protein that is member of the heat shock protein 90 (HSP90) family. The encoded protein has ATPase activity and interacts with tumor necrosis factor type I. And this protein may function in regulating cellular stress responses. In addition, it was found that TRAP1 interacted with the N-terminal half of TNFR1. Also, TRAP1 interacted with the C-terminal ends of the proteins encoded by both multiple exostoses-causing genes, EXT1 and EXT2, but not with EXTL1 or EXTL3. |
| Molecular Weight: | 80 kDa |
| Gene ID: | 10131 |
| UniProt: | Q12931 |

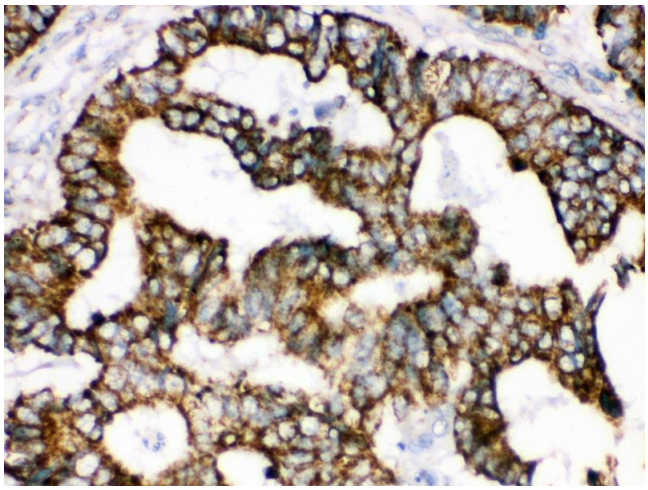
## Application Details

| | |
|---|---|
| Application Notes: | Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human<br>Western blot, 0.1-0.5 µg/mL, Human, Rat<br>1. "Entrez Gene: TRAP1 TNF receptor-associated protein 1". 2. Felts SJ, Owen BA, Nguyen P, Trepel J, Donner DB, Toft DO (March 2000). "The hsp90-related protein TRAP1 is a mitochondrial protein with distinct functional properties". J Biol Chem 275 (5): 3305-12. 3. Song HY, Dunbar JD, Zhang YX, Guo D, Donner DB (March 1995). "Identification of a protein with homology to hsp90 that binds the type 1 tumor necrosis factor receptor". J Biol Chem 270 (8): 3574-81. |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

## Handling

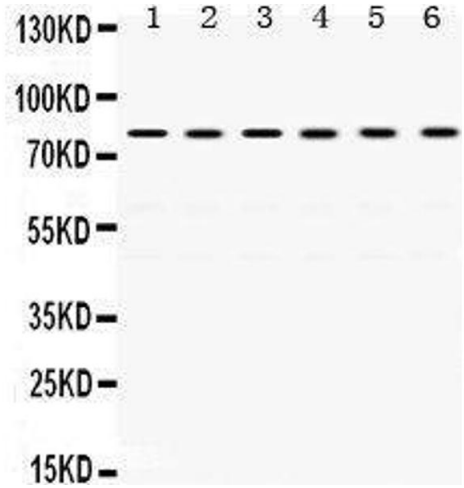
| | |
|---|---|
| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |

## Images



**Immunohistochemistry**

**Image 1.** Anti- TRAP1 Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue




**Western Blotting**

**Image 2.**