10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-TRAP1 Picoband Antibody

Catalog # ABO12520

Specification

Anti-TRAP1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q12931
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Heat shock protein 75 kDa, mitochondrial(TRAP1) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRAP1 Picoband Antibody - 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

Calculated MW
80110 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Mitochondrion . Mitochondrion inner membrane . Mitochondrion matrix .

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. .

Protein Name
Heat shock protein 75 kDa, mitochondrial

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-TRAP1 Picoband Antibody - 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

Anti-TRAP1 Picoband 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 Cytomety
- Cell Culture

Anti-TRAP1 Picoband Antibody - Images

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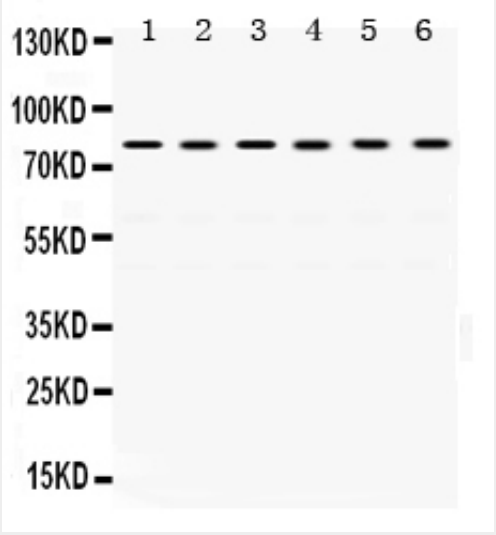
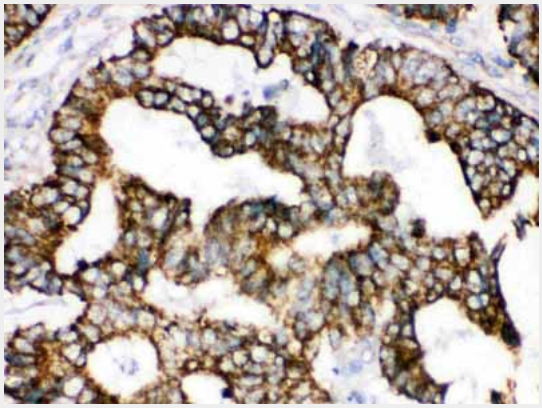


Anti- TRAP1 Picoband antibody, ABO12520, Western blottingAll lanes: Anti TRAP1 (ABO12520) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Brain Tissue Lysate at 50ugLane 4: SMMC Whole Cell Lysate at 40ugLane 5: PANC Whole Cell Lysate at 40ugLane 6: A549 Whole Cell Lysate at 40ugPredicted bind size: 80KDObserved bind size: 80KD



Anti- TRAP1 Picoband antibody, ABO12520, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Anti-TRAP1 Picoband Antibody - 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.