

Anti-TRAP1 Picoband Antibody
Catalog # ABO12520

Specification

Anti-TRAP1 Picoband Antibody - Product Information

Application	WB, IHC
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 highly 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 Na₃.

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

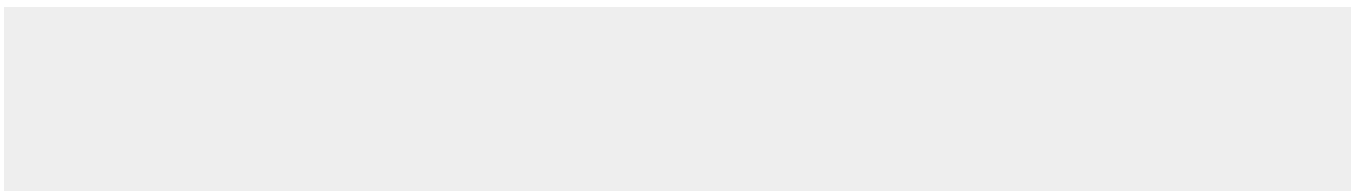
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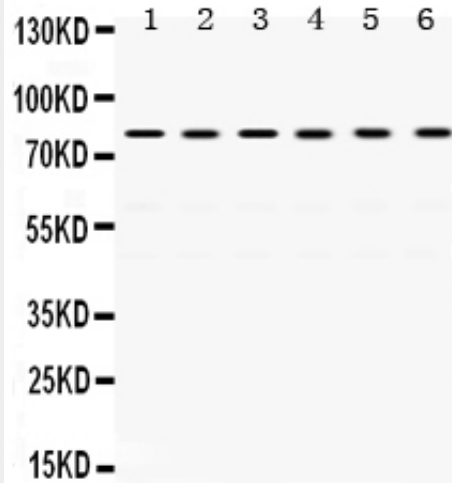
Anti-TRAP1 Picoband Antibody - Protocols

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

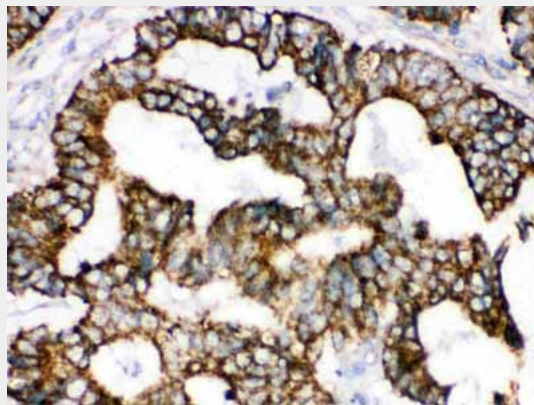
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-TRAP1 Picoband Antibody - Images





Anti- TRAP1 Picoband antibody, ABO12520, Western blotting All lanes: Anti TRAP1 (ABO12520) at 0.5ug/ml Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: Rat Brain Tissue Lysate at 50ug Lane 4: SMMC Whole Cell Lysate at 40ug Lane 5: PANC Whole Cell Lysate at 40ug Lane 6: A549 Whole Cell Lysate at 40ug Predicted bind size: 80KD Observed 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.