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

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1749

Specification

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q12931
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 80 kDa , observed , 75 kDa KDa**
Gene Name	**TRAP1**
Aliases	**TRAP1; TNF Receptor Associated Protein 1; HSP75; HSP90L; Tumor Necrosis Factor Type 1 Receptor-Associated Protein; Heat Shock Protein 75 KDa, Mitochondrial; TNFR-Associated Protein 1; HSP 75; TRAP-1; TNF Receptor-Associated Protein 1; Testicular Tissue Protein Li 209**
Immunogen	**A synthesized peptide derived from human TRAP1**

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**10131**

Other Names
Heat shock protein 75 kDa, mitochondrial, HSP 75, Heat shock protein family C member 5, TNFR-associated protein 1, Tumor necrosis factor type 1 receptor-associated protein, TRAP-1, TRAP1, HSP75, HSPC5 {ECO:0000303|PubMed:18663603}

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal 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

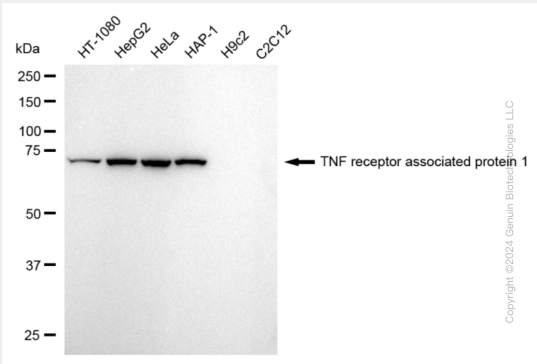
Tissue Location
Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung, placenta and bladder. Expression is highly reduced in bladder cancer and renal cell carcinoma specimens compared to healthy tissues, but it is increased in other type of tumors

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal Antibody - Protocols

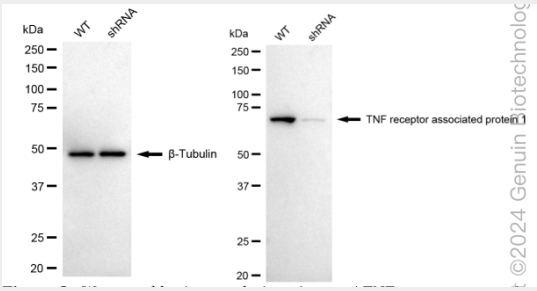
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-TNF Receptor Associated Protein 1 Rabbit Monoclonal Antibody - Images



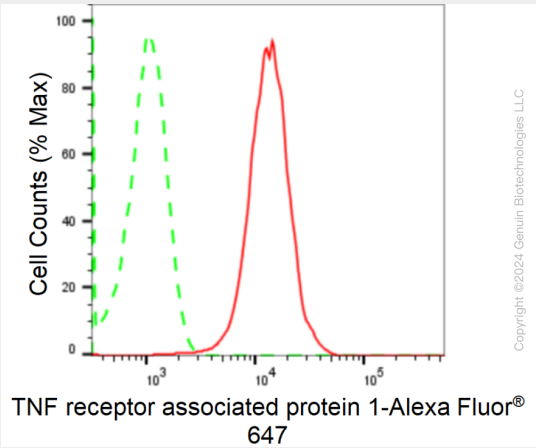
Western blotting analysis using anti-TNF receptor associated protein 1 antibody (Cat#AGI1749). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-TNF receptor associated protein 1 antibody (Cat#AGI1749, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



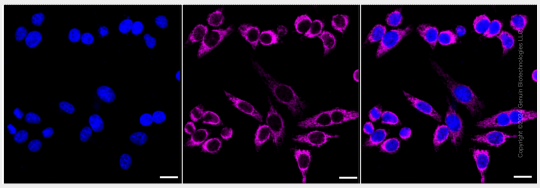
Western blotting analysis using anti-TNF receptor associated protein 1 antibody (Cat#AGI1749). TNF receptor associated protein 1 expression in wild type (WT) and TNF receptor associated protein 1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-TNF receptor associated protein 1 antibody

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

(Cat#AGI1749, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of TNF receptor associated protein 1 expression in HepG2 cells using anti-TNF receptor associated protein 1 antibody (Cat#AGI1749, 1:2,000). Green, isotype control; red, TNF receptor associated protein 1.



Immunocytochemical staining of HepG2 cells with anti-TNF receptor associated protein 1 antibody (Cat#AGI1749, 1:1,000). Nuclei were stained blue with DAPI; TNF receptor associated protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.