

TRAP1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14128b**Specification**

TRAP1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q12931](#)**TRAP1 Antibody (C-term) Blocking peptide - 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

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14128b was selected from the C-term region of TRAP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRAP1 Antibody (C-term) Blocking peptide - Protein Information**Name** TRAP1**Synonyms** HSP75**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

TRAP1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TRAP1 Antibody (C-term) Blocking peptide - Images

TRAP1 Antibody (C-term) Blocking peptide - Background

HSP90 proteins are highly conserved molecular chaperones that have key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90 proteins normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. TRAP1 is a mitochondrial HSP90 protein. Other HSP90 proteins are found in cytosol (see HSP90AA1; MIM 140571) and endoplasmic reticulum (HSP90B1; MIM 191175) (Chenet al., 2005 [PubMed 16269234]).

TRAP1 Antibody (C-term) Blocking peptide - References

Liu, D., et al. Cancer Lett. 296(2):194-205(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Nguyen, M.C., et al. Cancer Immunol. Immunother. 59(9):1313-1323(2010) Landriscina, M., et al. Cancer Res. 70(16):6577-6586(2010) Leav, I., et al. Am. J. Pathol. 176(1):393-401(2010)