

HSPA9 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10160c**Specification**

HSPA9 Antibody (Center) Blocking peptide - Product Information

Primary Accession [P38646](#)
Other Accession [NP_004125.3](#)

HSPA9 Antibody (Center) Blocking peptide - Additional Information

Gene ID 3313

Other Names

Stress-70 protein, mitochondrial, 75 kDa glucose-regulated protein, GRP-75, Heat shock 70 kDa protein 9, Mortalin, MOT, Peptide-binding protein 74, PBP74, HSPA9, GRP75, HSPA9B, mt-HSP70

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.

HSPA9 Antibody (Center) Blocking peptide - Protein Information

Name HSPA9 ([HGNC:5244](#))

Synonyms GRP75, HSPA9B, mt-HSP70

Function

Chaperone protein which plays an important role in mitochondrial iron-sulfur cluster (ISC) biogenesis. Interacts with and stabilizes ISC cluster assembly proteins FXN, NFU1, NFS1 and ISCU (PubMed: [26702583](http://www.uniprot.org/citations/26702583)). Regulates erythropoiesis via stabilization of ISC assembly (PubMed: [21123823](http://www.uniprot.org/citations/21123823), PubMed: [26702583](http://www.uniprot.org/citations/26702583)). May play a role in cell cycle regulation via its interaction with and promotion of degradation of TP53 (PubMed: [24625977](http://www.uniprot.org/citations/24625977), PubMed: [26634371](http://www.uniprot.org/citations/26634371)). May play a role in the control of cell proliferation and cellular aging (By similarity). Molecular adapter that regulates mitochondrial calcium-dependent apoptosis by coupling two calcium channels, ITPR1 and VDAC1, at the mitochondria-associated endoplasmic reticulum (ER) membrane to facilitate calcium transport from the ER lumen to the mitochondria intermembrane space, thus providing calcium for the downstream calcium channel MCU that directly releases it

into mitochondria matrix (By similarity).

Cellular Location

Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix {ECO:0000250|UniProtKB:P48721}. Note=Found in a complex with HSPA9 and VDAC1 at the endoplasmic reticulum-mitochondria contact sites {ECO:0000250|UniProtKB:P48721}

HSPA9 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

HSPA9 Antibody (Center) Blocking peptide - Images

HSPA9 Antibody (Center) Blocking peptide - Background

This gene encodes a member of the heat shock protein 70 gene family. The encoded protein is primarily localized to the mitochondria but is also found in the endoplasmic reticulum, plasma membrane and cytoplasmic vesicles. This protein is a heat-shock cognate protein. This protein plays a role in cell proliferation, stress response and maintenance of the mitochondria. A pseudogene of this gene is found on chromosome 2.

HSPA9 Antibody (Center) Blocking peptide - References

Li, Y., et al. Environ. Health Perspect. 118(7):936-942(2010) Luo, W.I., et al. Protein Expr. Purif. 72(1):75-81(2010) Goswami, A.V., et al. J. Biol. Chem. 285(25):19472-19482(2010) Iosefson, O., et al. FEBS Lett. 584(6):1080-1084(2010) Rikova, K., et al. Cell 131(6):1190-1203(2007)