

**HSPA9 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10160c**

**Specification**

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**HSPA9 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P38646</a>
Other Accession	<a href="#">P48721</a> , <a href="#">P38647</a> , <a href="#">O35501</a> , <a href="#">O3ZCHO</a> , <a href="#">NP_004125.3</a>
Reactivity	Human
Predicted	Bovine, Hamster, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	73680
Antigen Region	273-301

**HSPA9 Antibody (Center) - 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

**Target/Specificity**

This HSPA9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-301 amino acids from the Central region of human HSPA9.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HSPA9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HSPA9 Antibody (Center) - 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](#)). Regulates erythropoiesis via stabilization of ISC assembly (PubMed:[21123823](#), PubMed:[26702583](#)). May play a role in cell cycle regulation via its interaction with and promotion of degradation of TP53 (PubMed:[24625977](#), PubMed:[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).

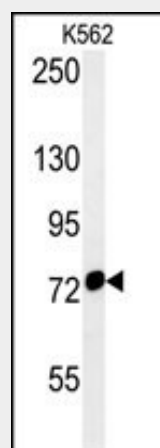
**Cellular Location**

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) - 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](#)

**HSPA9 Antibody (Center) - Images**

HSPA9 Antibody (Center) (Cat. #AP10160c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the HSPA9 antibody detected the HSPA9 protein (arrow).

**HSPA9 Antibody (Center) - 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) - References**

Li, Y., et al. Environ. Health Perspect. 118(7):936-942(2010)  
Luo, W.L., 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)