

**HSPA9 / Mortalin / GRP75 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11515****Specification**

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**HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">P38646</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74kDa KDa

**HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - 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**

N-terminal fragment of human Grp 75 (a. a. 47-69).

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - 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

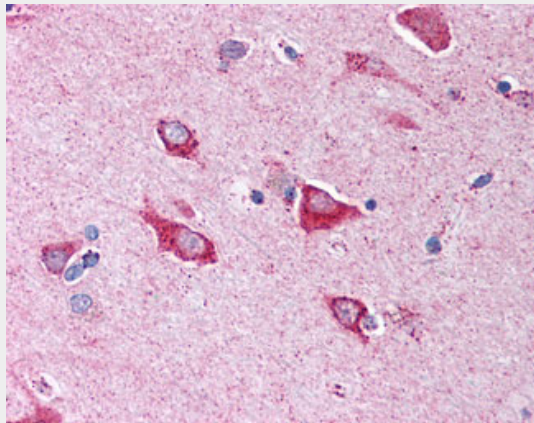
Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix {ECO:0000250|UniProtKB:P48721}. Note=Found in a complex with HSPA9 and VDAC1 at the endoplasmic reticulum-mitochondria contact sites {ECO:0000250|UniProtKB:P48721}

#### HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - 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 / Mortalin / GRP75 Antibody (N-Terminus) - Images



Anti-GRP75 antibody IHC of human brain, cortex.

#### HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - Background

Implicated in the control of cell proliferation and cellular aging. May also act as a chaperone.

#### HSPA9 / Mortalin / GRP75 Antibody (N-Terminus) - References

Domanico S.Z., et al. Mol. Cell. Biol. 13:3598-3610(1993).  
Bhattacharyya T., et al. J. Biol. Chem. 270:1705-1710(1995).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.  
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.