

HSPA9 / Mortalin / GRP75 Antibody (aa630-679)
Rabbit Polyclonal Antibody
Catalog # ALS14342**Specification****HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - Product Information**

Application	IF, WB, IHC
Primary Accession	P38646
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74kDa KDa

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - 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

GRP75 Antibody detects endogenous levels of total GRP75 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) is for research use only and not for use in diagnostic or therapeutic procedures.

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - 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 couples ITPR1 and VDAC1 and directly regulates calcium uptake into mitochondria (PubMed:17178908).

Cellular Location

Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix
{ECO:0000250|UniProtKB:P48721}

Volume

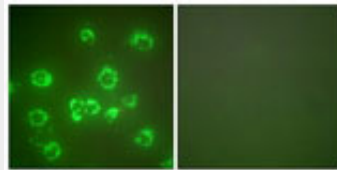
50 μ l

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - Protocols

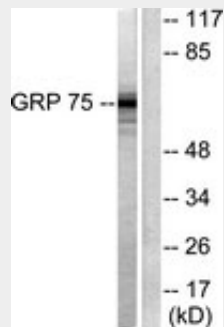
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

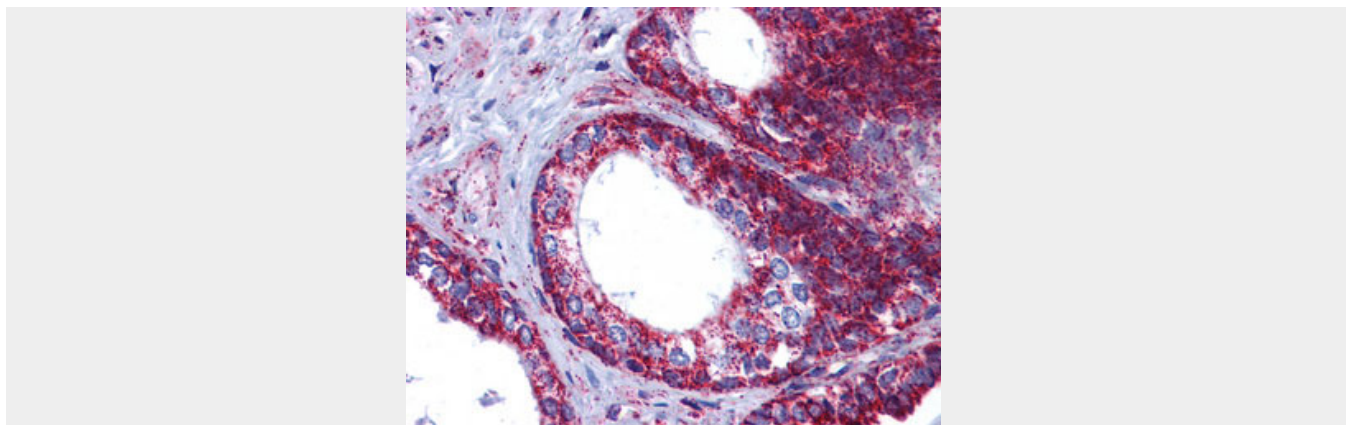
HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - Images



Immunofluorescence of COS7 cells, using GRP75 Antibody.



Western blot of extracts from COS7 cells, using GRP75 Antibody.



Anti-GRP75 antibody IHC of human prostate.

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - Background

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

HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - 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.