10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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). 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).

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Cellular Location
Mitochondrion. Nucleus, nucleolus. Cytoplasm

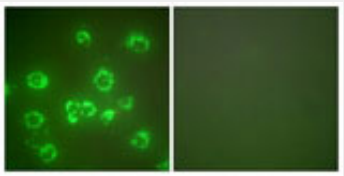
Volume
50 µl

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

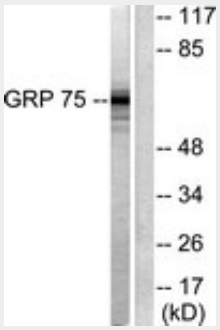
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

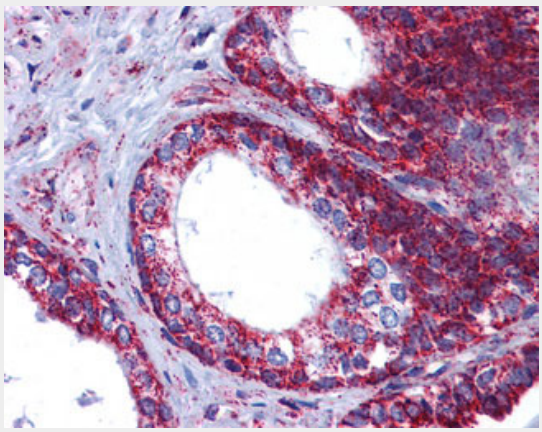
HSPA9 / Mortalin / GRP75 Antibody (aa630-679) - Images



Immunofluorescence of COS7 cells, using GRP75 Antibody.



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



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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.