

**GRP75 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51270**

**Specification**

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**GRP75 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P38646</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75 KDa
Antigen Region	611 - 670

**GRP75 Antibody - 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**

KLH conjugated synthetic peptide derived from human GRP75

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**GRP75 Antibody - 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:<a href="http://www.uniprot.org/citations/24625977" target="\_blank">24625977</a>, PubMed:<a href="http://www.uniprot.org/citations/26634371" target="\_blank">26634371</a>). 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:<a href="http://www.uniprot.org/citations/17178908" target="\_blank">17178908</a>).

#### Cellular Location

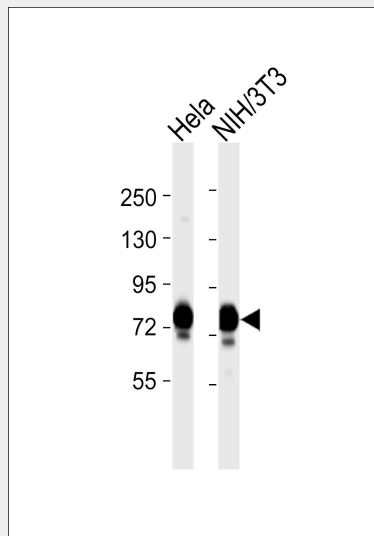
Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix  
{ECO:0000250|UniProtKB:P48721}

#### GRP75 Antibody - 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](#)

#### GRP75 Antibody - Images



All lanes : Anti-GRP75 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 74 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

#### GRP75 Antibody - Background

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

#### GRP75 Antibody - 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.