

**Grp75 Antibody**  
**Rabbit mAb**  
**Catalog # AP91430**

## Specification

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### Grp75 Antibody - Product Information

Application	<b>WB</b>
Primary Accession	<a href="#">P38646</a>
Reactivity	<b>Rat</b>
Clonality	<b>Monoclonal</b>

#### Other Names

GRP-75; Heat shock 70 kDa protein 9; Mortalin; MOT; Peptide-binding protein 74; PBP74; HSPA9; GRP75; HSPA9B; mt-HSP70;

Isotype	<b>Rabbit IgG</b>
Host	<b>Rabbit</b>
Calculated MW	<b>73680 Da</b>

### Grp75 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Grp75</b>
Description	<b>Implicated in the control of cell proliferation and cellular aging. May also act as a chaperone.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### 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:<a href="http://www.uniprot.org/citations/26702583" target="\_blank">26702583</a>). Regulates erythropoiesis via stabilization of ISC assembly (PubMed:<a href="http://www.uniprot.org/citations/21123823" target="\_blank">21123823</a>, PubMed:<a href="http://www.uniprot.org/citations/26702583" target="\_blank">26702583</a>). 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 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

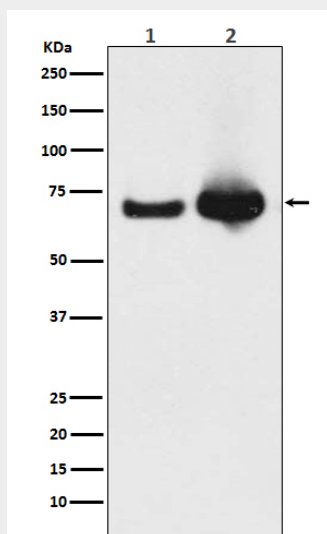
Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix  
{ECO:0000250|UniProtKB:P48721}. Note=Found in a complex with HSPA9 and VDAC1 at the endoplasmic reticulum-mitochondria contact sites {ECO:0000250|UniProtKB:P48721}

#### 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



Western blot analysis of Grp75 expression in (1) HeLa cell lysate; (2) Mouse liver lysate.