

**Anti-Grp75 Rabbit Monoclonal Antibody**  
Catalog # ABO15189**Specification****Anti-Grp75 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P38646</a> |
| Host              | Rabbit                 |
| Isotype           | IgG                    |
| Reactivity        | Rat, Human, Mouse      |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-Grp75 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

**Anti-Grp75 Rabbit Monoclonal 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, Heat shock protein family A member 9, Mortalin, MOT, Peptide-binding protein 74, PBP74, HSPA9 ([HGNC:5244](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=5244)), GRP75, HSPA9B, mt-HSP70

**Application Details**

WB 1:500-1:2000

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Grp75

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Grp75 Rabbit Monoclonal 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}

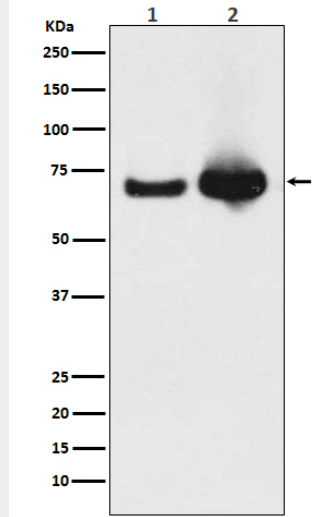
### Anti-Grp75 Rabbit Monoclonal Antibody - Protocols

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](#)

### Anti-Grp75 Rabbit Monoclonal Antibody - Images





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