

Anti-GRP75 Antibody
Catalog # AP53684**Specification**

Anti-GRP75 Antibody - Product Information

Application	WB, IF
Primary Accession	P38646
Other Accession	Q8N1C8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73680

Anti-GRP75 Antibody - Additional Information**Gene ID** 3313**Other Names**

HSPA9; GRP75; HSPA9B; Stress-70 protein, mitochondrial; 75 kDa glucose-regulated protein; GRP-75; Heat shock 70 kDa protein 9; Mortalin; MOT; Peptide-binding protein 74; PBP74

Target/Specificity

Recognizes endogenous levels of GRP75 protein.

Dilution

WB~~1/500 - 1/1000

IF~~1/50 - 1/200

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

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

Anti-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). 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). Molecular adapter that couples ITPR1 and VDAC1 and directly regulates calcium uptake into mitochondria (PubMed:17178908).

Cellular Location

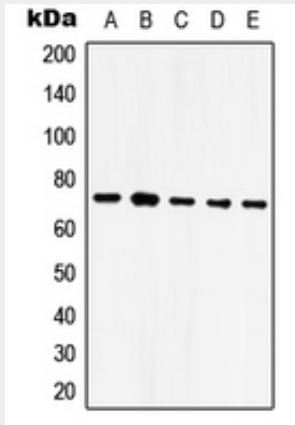
Mitochondrion. Nucleus, nucleolus. Cytoplasm. Mitochondrion matrix
{ECO:0000250|UniProtKB:P48721}

Anti-GRP75 Antibody - Protocols

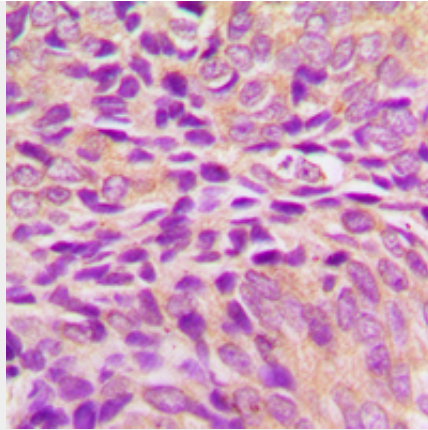
Provided below are standard protocols that you may find useful for product applications.

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

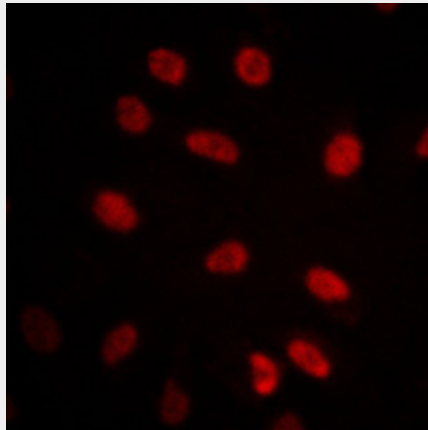
Anti-GRP75 Antibody - Images



Western blot analysis of GRP75 expression in HeLa (A), NIH3T3 (B), SP2/0 (C), mouse brain (D), rat brain (E) whole cell lysates.



Immunohistochemical analysis of GRP75 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GRP75 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-GRP75 Antibody - Background

Rabbit polyclonal antibody to GRP75