

**Product Name: KD-Validated Grp75 Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA01468**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,ICC                                                                      |
| <b>Reactivity</b>   | Human,M                                                                     |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 73.7kDa                |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | HSPA9<br>HSPA9; Heat Shock Protein Family A (Hsp70) Member 9; GRP75; PBP74; 75 KDa Glucose-Regulated Protein; Stress-70 Protein, Mitochondrial; HSPA9B; Heat Shock 70kDa Protein 9 (Mortalin); Peptide-Binding Protein 74; Mortalin2; Mortalin; MTHSP75; GRP-75; MOT;                                                          |
| <b>Alternative Names</b> | Epididymis Secretory Sperm Binding Protein Li 124m; Heat Shock 70kDa Protein 9B (Mortalin-2); Catecholamine-Regulated Protein 40; Heat Shock 70 KDa Protein 9; Heat Shock 70kD Protein 9B; Mortalin, Perinuclear; P66-Mortalin; HEL-S-124m; Mortalin-2; Mt-HSP70; Mthsp75; SIDBA4; Mot-2; CRP40; EVPLS; MOT-2; MOT2; SAAN; CSA |
| <b>Gene ID</b>           | 3313.0                                                                                                                                                                                                                                                                                                                         |
| <b>SwissProt ID</b>      | P38646                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>         | A synthesized peptide derived from human Grp75                                                                                                                                                                                                                                                                                 |

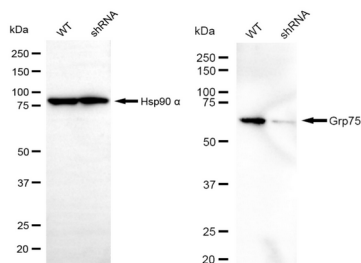
## Background

This gene encodes a member of the heat shock protein 70 gene family. The encoded protein is primarily localized to the mitochondria but is also found in the endoplasmic reticulum, plasma membrane and cytoplasmic vesicles. This protein is a heat-shock cognate protein. This protein plays a role in cell proliferation, stress response and maintenance of the mitochondria. A pseudogene of this gene is found on chromosome 2.[provided by RefSeq, May 2010]

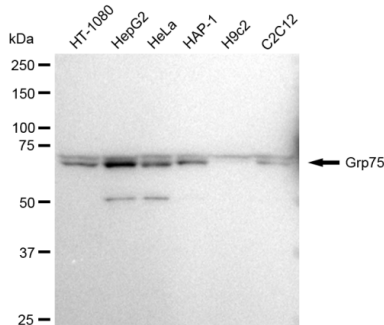
## Research Area

Neuroscience,Signal Transduction,Cancer,Metabolism

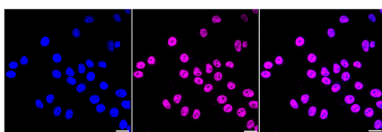
## Image Data



Western blotting analysis using Grp75 antibody (KVA01468). Grp75 expression in wild type (WT) and Grp75 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Grp75 antibody (KVA01468, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Grp75 antibody (KVA01468). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Grp75 antibody (KVA01468, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Grp75 antibody (KVA01468, 1:1,000). Nuclei were stained blue with DAPI; Grp75 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.