

Anti-Grp75/HSPA9 Antibody

Catalog Number: PA1789

About HSPA9

HSPA9 (heat shock 70kDa protein 9 (mortalin)), also known as GRP75, mot-2, mthsp75, PBP74, HSPA9B, MORTALIN or MORTALIN, PERINUCLEAR, is a highly conserved member of the HSP70 family of proteins. It functions as a chaperone in the mitochondria, cytoplasm, and centrosome. The HSPA9 gene is mapped to chromosome 5q31.2 based on an alignment of the HSPA9 sequence with the genomic sequence. Knockdown of HSPA9 in erythroid cultures was associated with an increased number of cells in the G0/G1 phase of the cell cycle and accelerated apoptosis. Knockdown of Hspa9 in mouse bone marrow cells, followed by transplantation into wildtype recipients, also resulted in loss of erythroid cell number. Haploinsufficiency for HSPA9 may contribute to abnormal hematopoiesis in myelodysplastic syndromes. This protein plays a role in the control of cell proliferation.

Overview

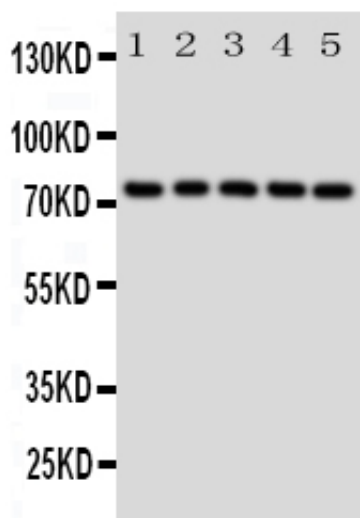
Product Name	Anti-Grp75/HSPA9 Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Stress-70 protein, mitochondrial (HSPA9) detection. Tested with WB, IHC-P, IHC-F, ICC in Human; Mouse; Rat.
Application	IHC-P, IHC-F, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P38646

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human
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	Grp75(591-609aa DTETKMEEFKDQLPADECN), identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunocytochemistry , 0.5-1µg/ml, Human, Mouse, Rat Immunohistochemistry(Frozen Section), 0.5-1µg/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-Grp75/HSPA9 Antibody (PA1789) Images



Anti-Grp75 antibody, PA1789, Western blotting

All lanes: Anti Grp75 (PA1789) at 0.5ug/ml

Lane 1: Rat Liver Tissue Lysate at 50ug

Lane 2: A549 Whole Cell Lysate at 40ug

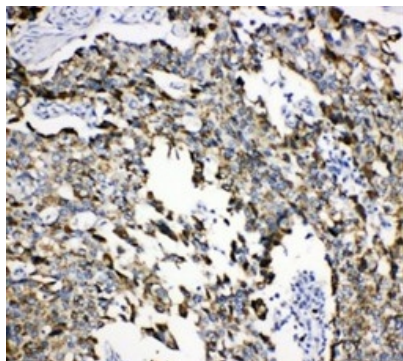
Lane 3: 293T Whole Cell Lysate at 40ug

Lane 4: M431 Whole Cell Lysate at 40ug

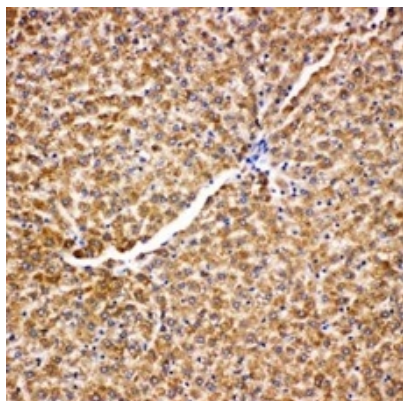
Lane 5: COLO320 Whole Cell Lysate at 40ug

Predicted bind size: 74KD

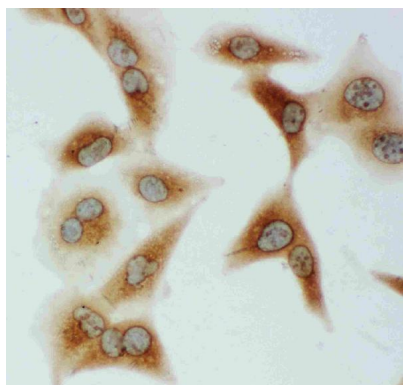
Observed bind size: 74KD



Anti-Grp75 antibody, PA1789, IHC(P)
IHC(P): Human Lung Cancer Tissue



Anti-Grp75 antibody, PA1789, IHC(P)
IHC(P): Rat Liver Tissue



Anti-Grp75 antibody, PA1789, ICC
ICC: A549 Cell

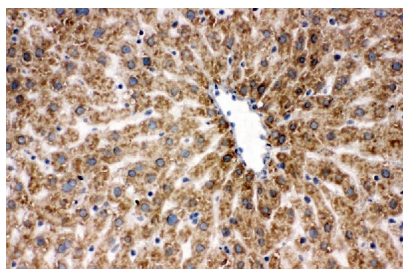


Figure 5. IHC analysis of Grp75 using anti-Grp75 antibody (PA1789).

Grp75 was detected in frozen section of rat liver tissues. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Grp75 Antibody (PA1789) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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