

Rabbit HSPA9 Polyclonal Antibody | anti-HSPA9 antibody

HSPA9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325896	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

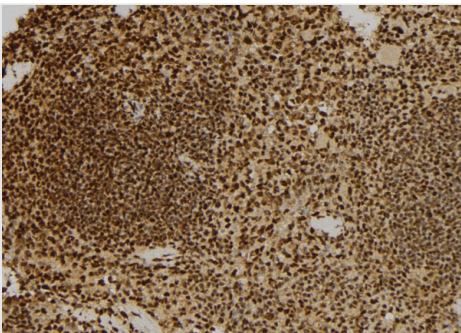
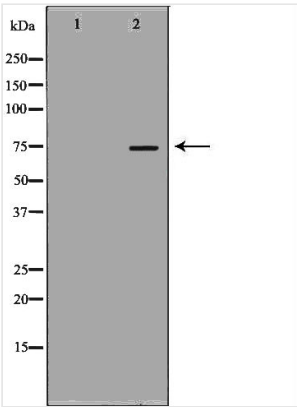
PRODUCT SYNONYMS

HSPA9; Polyclonal Antibody; HSPA9 Antibody; 75 kDa glucose regulated protein; 75 kDa glucose-regulated protein; CSA; Glucose Regulated Protein; Grp 75; GRP-75; GRP75; GRP75_HUMAN; Heat shock 70 kDa protein 9; Heat shock 70kD protein 9; heat shock 70kDa protein 9; Heat shock 70kDa protein 9B; Heat shock protein 74 kDa A; Heat shock protein A; Heat shock protein cognate 74; Hsc74; Hsp74; Hsp74a; Hspa9a; HSPA9B; MGC4500; mitochondrial; Mortalin 2; Mortalin; Mortalin perinuclear; Mortalin2; MOT 2; MOT; MOT2; Mthsp70; p66 mortalin; P66 MOT; PBP74; Peptide binding protein 74; Peptide-binding protein 74; Stress 70 protein mitochondrial; Stress 70 protein mitochondrial precursor; Stress-70 protein; anti-HSPA9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HSPA9 antibody detects endogenous levels of total HSPA9
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	679
Applicable Applications for anti-HSPA9 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HSPA9
Subcellular Location	Mitochondrion.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325896 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of MCF7 cell lysate, using HSPA9 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPA9 antibody

Description: Grp75, also known as mortalin, is a member of Hsp70 family of chaperone proteins that is not heat-inducible (1, 2). This protein is essential for transporting many mitochondrial proteins from the cytoplasm to mitochondria (3). Grp75 inactivates the tumor suppressor p53 (4). Studies found that Grp75 is overexpressed in many tumor tissues and immortalized human cell lines, suggesting its role in the tumor formation (5). Grp75 is also implicated in cell aging, as its overexpression appears to prolong the life span of human fibroblasts (6).
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 the control of cell proliferation and cellular aging (By similarity).
Subunit Structure: Interacts strongly with the intermediate form of FXN and weakly with its mature form (PubMed:17331979, PubMed:26702583). Interacts with HSCB (PubMed:20668094). Associates with the mitochondrial contact site and cristae organizing system (MICOS) complex, composed of at least MINOS1/MIC10, CHCHD3/MIC19, CHCHD6/MIC25, APOOL/MIC27, IMMT/MIC60, APOO/MIC23/MIC26 and QIL1/MIC13. This complex was also known under the names MINOS or MitOS complex. The MICOS complex associates with mitochondrial outer membrane proteins SAMM50, MTX1, MTX2 and DNAJC11, mitochondrial inner membrane protein TMEM11 and with HSPA9 (PubMed:22114354). Interacts with DNLZ, the interaction is required to prevent self-aggregation (PubMed:23462535). Interacts with TESPA1 (PubMed:23501103). Interacts with PDPN (PubMed:23541579). Interacts with NFU1, NFS1 and ISCU (PubMed:26702583).
Similarity: Belongs to the heat shock protein 70 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24234688
NCBI GeneID	3313
NCBI Accession #	NP_004125.3
NCBI GenBank Nucleotide #	NM_004134.6
UniProt Accession #	P38646; P30036; P31932; Q1HB43; Q53H23; Q6GU03; Q9BWB7; Q9UC56; B2RCM1
Molecular Weight	Observed: 74 kDa Predicted: 74 kDa
NCBI Official Full Name	stress-70 protein, mitochondrial
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 9
NCBI Official Symbol	HSPA9
NCBI Official Synonym Symbols	CSA; MOT; MOT2; SAAN; CRP40; EVPLS; GRP75; PBP74; GRP-75; HSPA9B; SIDBA4; MTHSP75; HEL-S-124m

NCBI Protein Information	stress-70 protein, mitochondrial
UniProt Protein Name	Stress-70 protein, mitochondrial
UniProt Gene Name	HSPA9
UniProt Synonym Gene Names	GRP75; HSPA9B; mt-HSP70; GRP-75; MOT; PBP74

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hspa9-antibody-immunohistochemistry-western-blot-elisa/325896>