

Product datasheet for **CF500630**

Grp75 (HSPA9) Mouse Monoclonal Antibody [Clone ID: OTI10D7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10D7
Applications:	FC, IF, WB
Recommended Dilution:	IF 1:100, FLOW 1:100, WB: 1:200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HSPA9 (NP_004125) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	73.5 kDa
Gene Name:	heat shock protein family A (Hsp70) member 9
Database Link:	NP_004125 Entrez Gene 15526 Mouse Entrez Gene 291671 Rat Entrez Gene 3313 Human P38646



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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.

Synonyms:

CSA; GRP-75; GRP75; HEL-S-124m; HSPA9B; MOT; MOT2; MTHSP75; PBP74

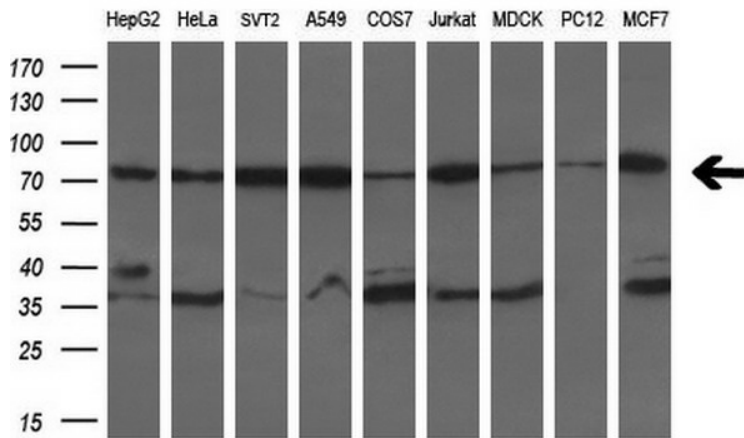
Protein Families:

Stem cell - Pluripotency

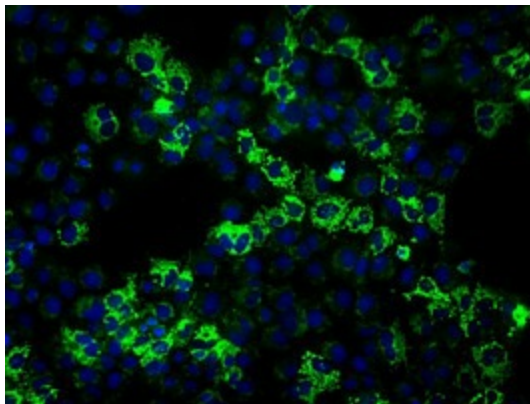
Protein Pathways:

RNA degradation

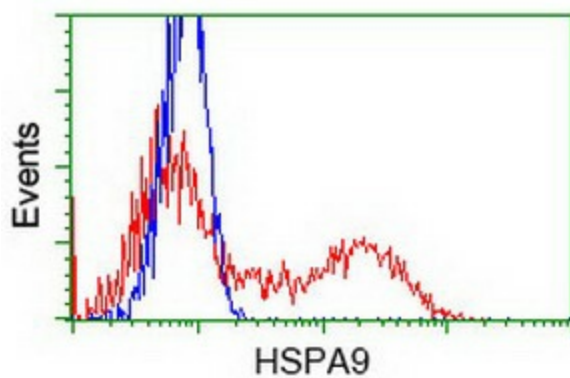
Product images:



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-HSPA9 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



Anti-HSPA9 mouse monoclonal antibody ([TA500630]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HSPA9 ([RC201397]).



HEK293T cells transfected with either [RC201397] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-HSPA9 antibody ([TA500630]), and then analyzed by flow cytometry.