

HSPA4

Mouse Anti-Multispecies Heat Shock 70 kDa Protein 4 Clone S5 mAb

Catalog No.	CMH115	Quantity:	100 µg
Alternate Names:	HSPA4, APG2, APG-2, HSP70RY, HS24/P52, MGC131852 , hsp70RY		
Description:	<p>Hsp70, one class of stress proteins, is comprised of multiple members, all of which bind ATP <i>in vitro</i>, but are localized within different intracellular compartments. These include: a) the constitutive Hsc70 (or cognate) present within the cytosol/nucleus; b) the highly stress-inducible Hsp70 present within the cytosol/ nucleus/nucleolus; c) the constitutive glucose regulated 78 kDa (or BiP) protein present within the lumen of the endoplasmic reticulum; and d) the glucose regulated 75 kDa protein present within the mitochondria. Hsp70 is typically not expressed in the cell under normal growth conditions, but is expressed at high levels in the cell experiencing stress. Consequently, detection of Hsp70 using an antibody specific for the inducible form is quite useful in ascertaining whether a stress response has occurred in the cell.</p>		
Concentration:	500 µg/mL		
Gene ID:	3308		
UniProtKB:	P34932		
Specificity:	The antibody recognizes a 70 kDa protein, corresponding to the apparent molecular weight of the inducible Hsp70 on SDS-PAGE immunoblots. This antibody has no reactivity with the constitutive Hsc70 (Hsp73).		
Host:	Mouse		
Immunogen:	Recombinant human Hsp70		
Isotype:	IgG1		
Clone:	S5		
Species Reactivity:	human, mouse, rat, monkey, hamster, rabbit, bovine		
Formulation:	Liquid in PBS, 1.0 mg/mL BSA, 1.5 mM sodium azide and 50% glycerol.		
Reconstitution:	The antibody solution should be gently mixed before use. The optimal concentration should be determined by the user for each specific application.		
Cross-Reactivity:	Reacts with human, mouse, rat, monkey, cow, rabbit, hamster, guinea pig, dog, sheep, chicken, pig. Does not cross-react with the constitutive HSPA8.		
Applications:	Western Blot, Immunoprecipitation, Immunohistochemistry (Frozen and Paraffin), FACS Analysis		
Application Notes:	Western Blot: 1 µg/mL), immunoprecipitation: 5-10 µg/mL, Immunohistochemistry: 5-20		



µg/mL, frozen & paraffin, and FACS analysis. The optimal conditions should be determined individually.

Storage & Stability: Store at -20 °C for up to one year.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com