

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: Hsp70, one class of stress proteins, is comprised of multiple members, all of which bind

ATP *in vitro*, 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.

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

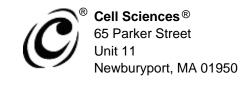
Analysis

Application Notes: Western Blot: 1 μg/mL), immunoprecipitation: 5-10 μg/mL, Immunohistochemistry: 5-20

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

Toll Free: 888-769-1246

Phone: 978-572-1070 Fax: 978-992-0298





 $\mu g/mL$, frozen & paraffin, and FACS analysis. The optimal conditions should be determined individually.

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

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