

Mouse anti-Human HSP70 Monoclonal Antibody | anti-HSP70 antibody

Anti-HSP70 Antibody, Mouse Monoclonal

CATALOG # AAA258897	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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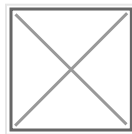
PRODUCT SYNONYMS

HSP70; Monoclonal Antibody; Anti-HSP70 Antibody; Mouse Monoclonal; heat shock 70kDa protein 1A; Anti-HEL-S-103 Antibody; Anti-HSP70-1 Antibody; Anti-HSP70-1A Antibody; Anti-HSP70I Antibody; Anti-HSP72 Antibody; Anti-HSPA1 Antibody; anti-HSP70 antibody

PRODUCT SPECIFICATIONS

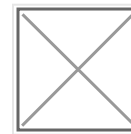
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Number	#14
Specificity	Human HSP70
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HSP70 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human HSP70 Protein
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human HSP70 (rh HSP70). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

HSPA1A was immunoprecipitated using: Lane A: 0.5 mg A431 Whole Cell Lysate; Lane B: 0.5 mg A549, Hela Whole Cell Lysate; 2 uL anti-HSPA1A mouse monoclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-HSPA1A mouse monoclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 70 kDa. Observed band size: 71 kDa.



WB (Western Blot)

Anti-HSPA1A mouse monoclonal antibody at 1:500 dilution. Lane A: A431 Whole Cell Lysate; Lane B: A549 Whole Cell Lysate; Lane C: HCT116 Whole Cell Lysate; Lane D: Hela Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 70 kDa. Observed band size: 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP70 antibody	HSPA1A is a member of the Hsp70 protein family. The 70 kilodalton heat shock proteins (Hsp70s) are a family of ubiquitously expressed heat shock proteins. HSP are abundant and conserved proteins present in all cells. Upon temperature shock or other stress stimuli, HSP is synthesized intracellularly, which may protect cells from protein denaturation or death. Extracellularly, HSP can serve a cytokine function to initiate both innate and adaptive immunity through activation of APC. HSP serves also a chaperone function and facilitates the presentation of antigen peptide to T cells. Molecular chaperones of the Hsp70 family have diverse functions in cells. They assist the folding of newly synthesized and stress-denatured proteins, as well as the import of proteins into organelles, and the dissociation of aggregated proteins. The well-conserved Hsp70 chaperones are ATP dependent: binding and hydrolysis of ATP regulate their interactions with unfolded polypeptide substrates, and ATPase cycling is necessary for their function. All cellular functions of Hsp70 chaperones use the same mechanism of ATP-driven polypeptide binding and release.
References	Heck TG, et al. (2011) HSP70 expression: does it a novel fatigue signalling factor from immune system to the brain Cell Biochem Funct. 29 (3): 215-26. Chen T, et al. (2010) Stress for maintaining memory: HSP70 as a mobile messenger for innate and adaptive immunity. Eur J Immunol. 40 (6): 1541-4. Young JC. (2010) Mechanisms of the Hsp70 chaperone system. Biochem Cell Biol. 88 (2): 291-300.

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/monoclonal/hsp70-antibody-clone-14-immunoprecipitation-western-blot-elisa/258897>