

Rabbit anti-Human HSP70 Polyclonal Antibody | anti-HSPA1A antibody

Anti-HSP70 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259427	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

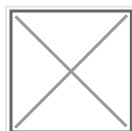
PRODUCT SYNONYMS

HSP70; Polyclonal Antibody; Anti-HSP70 Antibody; Rabbit Polyclonal; HSP70 Antibody; Rabbit PAb; Antigen Affinity Purified; heat shock 70kDa protein 1A; Anti-HEL-S-103 Antibody; Anti-HSP70-1 Antibody; Anti-HSP70-1A Antibody; Anti-HSP70-2 Antibody; Anti-HSP70.1 Antibody; Anti-HSP70.2 Antibody; Anti-HSP70I Antibody; Anti-HSP72 Antibody; Anti-HSPA1 Antibody; Anti-HSX70 Antibody; anti-HSPA1A antibody

PRODUCT SPECIFICATIONS

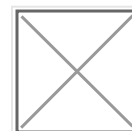
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human HSP70
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HSPA1A antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human HSP70 Protein (NP_005337.2; Ala2-Asp641). HSP70 specific IgG was purified by Human HSP70 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-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. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



IP (Immunoprecipitation)

HSPA1A was immunoprecipitated using: Lane A:0.5 mg A431 Whole Cell Lysate Lane B:0.5 mg A549 Whole Cell Lysate 4 uL anti-HSPA1A rabbit polyclonal antibody and 60ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-HSPA1A rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit 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



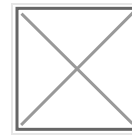
IHC (Immunohistochemistry)

Immunochemical staining of human HSP70 in human prostatic carcinoma with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human HSP70 in human hepatoma with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-HSPA1A rabbit polyclonal antibody at 1:500 dilution
Lane A: A431 Whole Cell Lysate
Lane B: A549 Whole Cell Lysate
Lysates/proteins at 30ug per lane.
Secondary Goat Anti-Rabbit 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-HSPA1A 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.
Product Categories/Family for anti-HSPA1A antibody	Death Receptor Signaling
References	Hec. TG. e. al. (2011. HSP7. expression. doe. i. . nove. fatigu. signallin. facto. fro. immun. syste. t. th. brai. Cel. Bioche. Funct. 2. (3). 215-26. Che. T. e. al. (2010. Stres. fo. maintainin. memory. HSP7. a. . mobil. messenge. fo. innat. an. adaptiv. immunity. Eu. . Immunol. 4. (6). 1541-4. Youn. JC. (2010. Mechanism. o. th. Hsp7. chaperon. system. Bioche. Cel. Biol. 8. (2). 291-300.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167466173
NCBI GeneID	3304
NCBI Accession #	NP_005337.2
NCBI GenBank Nucleotide #	NM_005346.4
UniProt Accession #	P0DMV9 ; P08107 ; P19790 ; Q5JQI4 ; Q5SP17 ; Q9UQL9 ; Q9UQM0 ; B4E3B6
Molecular Weight	70,052 Da
NCBI Official Full Name	heat shock 70 kDa protein 1B
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 1B
NCBI Official Symbol	HSPA1B
NCBI Official Synonym Symbols	HSP72; HSPA1; HSX70; HSP70-1; HSP70-2; HSP70.1; HSP70.2; HSP70-1B
NCBI Protein Information	heat shock 70 kDa protein 1B
UniProt Protein Name	Heat shock 70 kDa protein 1B
UniProt Gene Name	HSPA1B
UniProt Synonym Gene Names	HSP721 Publication Manual assertion based on opinion iniRef.36; HSP70-22 Publications Manual assertion based on opinion iniRef.3; HSP70.2

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.

