Mouse HSP70 Monoclonal Antibody | anti-HSP70 antibody

HSP70 Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA276785	**Mouse**	**Human, Rat, Mouse**	**Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

HSP70; Monoclonal Antibody; HSP70 Mouse mAb; Heat shock 70 kDa protein 1/2; heat shock 70kDa protein 1A; HSP70 1; HSP70 1/HSP70 2; HSP70 1A; HSP70.1/HSP70.2; HSP70I; HSP72; HSPA1; HSPA1A; HSPA1B; anti-HSP70 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Form/Format	PBS with 0.02% sodium azide and 50% glycerol pH7.4.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HSP70 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Synthetic Peptide
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human Lung caricnoma using HSP70 (EM1042)Mouse mAb diluted at 1:500.



IF (Immunofluorescence)
IF analysis of Hela with EM1042(Left) and DAPI (Right) diluted at 1:100.



WB (Western Blot)
Western blot analysis of extracts from HeLa (Lane 1),MCF-7 (Lane 2), using HSP70 diluted at 1:2,000.



WB (Western Blot)
Western blot analysis of 1) Hela, 2) Mouse Brain, with HSP70 mAb diluted at 1:2,000.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP70 antibody	The 70 kilodalton heat shock proteins (Hsp70s) are a family of ubiquitously expressed heat shock proteins. Proteins with similar structure exist in virtually all living organisms. The Hsp70s are an important part of the cell's machinery for protein folding, and help to protect cells from stress. Hsp70 is usually in an ATP bound state. Hsp70 by itself is characterized by a very weak ATPase activity, such that spontaneous hydrolysis will not occur for many minutes. As newly synthesized proteins emerge from the ribosomes, the substrate binding domain of Hsp70 recognizes sequences of hydrophobic amino acid residues, and interacts with them. This spontaneous interaction is reversible, and in the ATP bound state Hsp70 may relatively freely bind and release peptides. However, the presence of a peptide in the binding domain stimulates the ATPase activity of Hsp70, increasing its normally slow rate of ATP hydrolysis
Product Categories/Family for anti-HSP70 antibody	Cytoplasm

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248072
NCBI GeneID	3303
NCBI Accession #	NP_005336.3
NCBI GenBank Nucleotide #	NM_005345.5
UniProt Accession #	P0DMV8; P19790; Q5JQI4; Q5SP17; Q9UQL9; Q9UQM0; B4E3B6; P08107
Molecular Weight	70,052 Da
NCBI Official Full Name	heat shock 70 kDa protein 1A/1B
NCBI Official Synonym Full Names	heat shock 70kDa protein 1A
NCBI Official Symbol	HSPA1A
NCBI Official Synonym Symbols	HSP72; HSPA1; HSP70I; HSP70-1; HSP70-1A
NCBI Protein Information	heat shock 70 kDa protein 1A/1B; HSP70-1/HSP70-2; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; dnaK-type molecular chaperone HSP70-1
UniProt Protein Name	Heat shock 70 kDa protein 1A
UniProt Gene Name	**HSPA1A**
UniProt Synonym Gene Names	HSP721 PublicationManual assertion based on opinion iniRef.41; HSP70-12 PublicationsManual assertion based on opinion iniRef.4; HSP70.1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/hsp70-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/276785