

Rat HSC70/HSP73 Monoclonal Antibody | anti-Heat shock protein 70; Hsc70; Hsp73 antibody

HSC70/HSP73 monoclonal antibody (1B5) (biotin conjugate)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76985	Rat	Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea pig, Hamster, Monkey, Porcine, Rabbit, Sheep	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

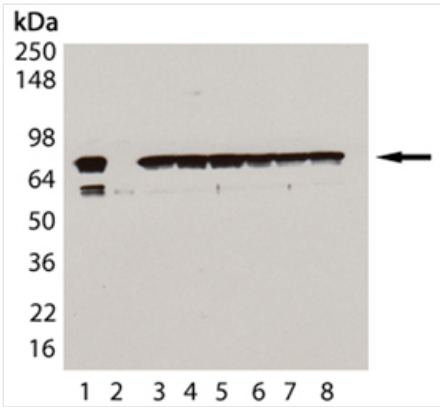
PRODUCT SYNONYMS

HSC70/HSP73; Monoclonal Antibody; HSC70/HSP73 monoclonal antibody (1B5) (biotin conjugate); anti-Heat shock protein 70; Hsc70; Hsp73 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea pig, Hamster, Monkey, Porcine, Rabbit, Sheep
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	1B5
Specificity	Recognizes human, mouse, rat, bovine, dog, chicken, guinea pig, hamster, monkey, pig, rabbit and sheep HSC70 (HSP73). Detects a band of ~73kDa by Western blot.
Purity/Purification	Protein G affinity purified.
Form/Format	Liquid. In PBS, pH 7.2, containing 0.09% sodium azide.
Sequence Length	646
Applicable Applications for anti-Heat shock protein 70; Hsc70; Hsp73 antibody	EM (Electron Microscopy), WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Native hamster Hsc70 (Hsp73).
Source	Purified from ascites.
Preparation and Storage	Long term storage: -20 degree C Short term storage: 4 degree C Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of HSC70/HSP73, mAb (1B5) (biotin conjugate) : Lane 1: HSC70/HSP73 (bovine), (rec) ; Lane 2: HSP70/HSP72 (human), (recombinant) ; Lane 3: 3T3 (heat shocked) ; Lane 4: PC-12 (heat shocked) ; Lane 5: CHO-K1 (heat shocked); Lane 6: GPC-16 (heat shocked); Lane 7: HeLa (heat shocked) ; Lane 8: Vero (heat shocked).

ADDITIONAL INFORMATION

Related Product Information for anti-Heat shock protein 70; Hsc70; Hsp73 antibody	The Hsp70 family of heat shock proteins contains multiple homologs ranging in size from 66-78 kDa, and are the eukaryotic equivalents of the bacterial DnaK. The most studied Hsp70 members include the cytosolic stress-induced Hsp70 (Hsp72), the constitutive cytosolic Hsc70 (Hsp73), and the ER-localized BiP (Grp78). Hsp70 family members contain highly conserved N-terminal ATPase and C-terminal protein binding domains. Binding of peptide to Hsp70 is assisted by Hsp40, and stimulates the inherent ATPase activity of Hsp70, facilitating ATP hydrolysis and enhanced peptide binding. Hsp70 nucleotide exchange and substrate binding coordinates the folding of newly synthesized proteins, the re-folding of misfolded or denatured proteins, coordinates trafficking of proteins across cellular membranes, inhibits protein aggregation, and targets the degradation of proteins via the proteasomal pathway.
Product Categories/Family for anti-Heat shock protein 70; Hsc70; Hsp73 antibody	Protein Synthesis & Folding

NCBI AND UNIPROT INFORMATION

NCBI GI #	123647
NCBI GeneID	100689472
UniProt Accession #	P19378
NCBI Official Full Name	Heat shock cognate 71 kDa protein
NCBI Official Symbol	Hspa8
NCBI Official Synonym Symbols	HSC70
NCBI Protein Information	heat shock cognate 71 kDa protein
UniProt Protein Name	Heat shock cognate 71 kDa protein
UniProt Gene Name	HSPA8
UniProt Synonym Gene Names	HSC70
UniProt Entry Name	HSP7C_CRIGR

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.

