

产品名称: Hsc70 (1F5) Rabbit Monoclonal Antibody
产品货号: AMRe12217



产品概述 (Summary)

产品名称 (Production Name)	Hsc70 (1F5) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC,IP
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	HSPA8
别名 (Alternative Names)	Heat shock cognate 71 kDa protein; HS7C; HSP73; HSP7C; HSPA10; HSPA8;
基因 ID (Gene ID)	3312.0
蛋白 ID (SwissProt ID)	P11142.A synthetic peptide of human Hsc70

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:100,ICC/IF 1:100-1:200,FC 1:50-1:100,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	71kDa

研究背景 (Background)

Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-

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mediated transcription. Chaperone. Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation (PubMed:[21150129](http://www.uniprot.org/citations/21150129), PubMed:[21148293](http://www.uniprot.org/citations/21148293), PubMed:[24732912](http://www.uniprot.org/citations/24732912), PubMed:[27916661](http://www.uniprot.org/citations/27916661), PubMed:[23018488](http://www.uniprot.org/citations/23018488)). This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones (PubMed:[21150129](http://www.uniprot.org/citations/21150129), PubMed:[21148293](http://www.uniprot.org/citations/21148293), PubMed:[24732912](http://www.uniprot.org/citations/24732912), PubMed:[27916661](http://www.uniprot.org/citations/27916661), PubMed:[23018488](http://www.uniprot.org/citations/23018488), PubMed:[12526792](http://www.uniprot.org/citations/12526792)). The co-chaperones have been shown to not only regulate different steps of the ATPase cycle of HSP70, but they also have an individual specificity such that one co-chaperone may promote folding of a substrate while another may promote degradation (PubMed:[21150129](http://www.uniprot.org/citations/21150129), PubMed:[21148293](http://www.uniprot.org/citations/21148293), PubMed:[24732912](http://www.uniprot.org/citations/24732912), PubMed:[27916661](http://www.uniprot.org/citations/27916661), PubMed:[23018488](http://www.uniprot.org/citations/23018488), PubMed:[12526792](http://www.uniprot.org/citations/12526792)). The affinity of HSP70 for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. HSP70 goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release. The HSP70-associated co-chaperones are of three types: J- domain co-chaperones HSP40s (stimulate ATPase hydrolysis by HSP70), the nucleotide exchange factors (NEF) such as BAG1/2/3 (facilitate conversion of HSP70 from the ADP-bound to the ATP-bound state thereby promoting substrate release), and the TPR domain chaperones such as HOPX and STUB1 (PubMed:[24318877](http://www.uniprot.org/citations/24318877), PubMed:[27474739](http://www.uniprot.org/citations/27474739), PubMed:[24121476](http://www.uniprot.org/citations/24121476), PubMed:[26865365](http://www.uniprot.org/citations/26865365)). Plays a critical role in mitochondrial

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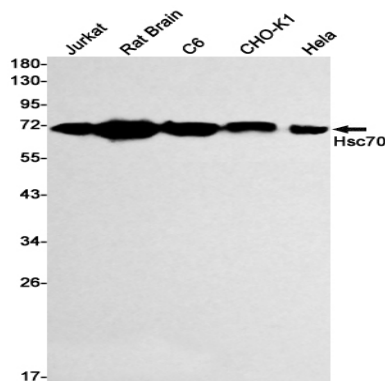


import, delivers preproteins to the mitochondrial import receptor TOMM70 (PubMed:12526792). Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad- mediated transcription. Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre- mRNA splicing. May have a scaffolding role in the spliceosome assembly as it contacts all other components of the core complex. Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:10722728, PubMed:11276205). Participates in the ER-associated degradation (ERAD) quality control pathway in conjunction with J domain-containing co-chaperones and the E3 ligase STUB1 (PubMed:23990462). Interacts with VGF-derived peptide TLQP-21 (PubMed:28934328).

研究领域 (Research Area)

Signal Transduction

图片 (Image Data)



Western blot detection of Hsc70 in Jurkat,Rat Brain,C6,CHO-K1,HeLa cell lysates using Hsc70 antibody(1:1000 diluted).

注意事项 (Note)

For research use only .