

## HSC 70 Polyclonal Antibody

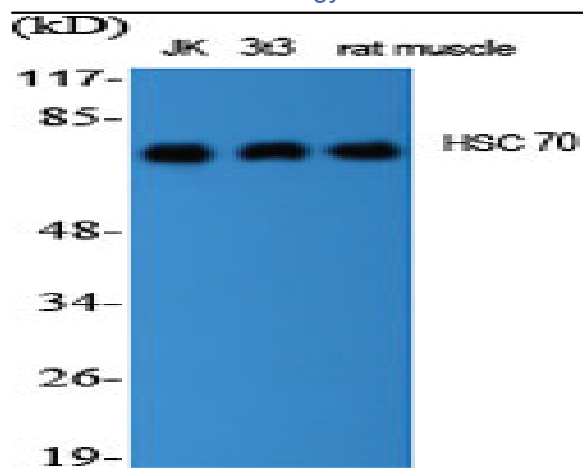
<b>Catalog No :</b>	YT2231
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	HSC 70
<b>Fields :</b>	>>Spliceosome;>>MAPK signaling pathway;>>Protein processing in endoplasmic reticulum;>>Endocytosis;>>Longevity regulating pathway - multiple species;>>Antigen processing and presentation;>>Estrogen signaling pathway;>>Prion disease;>>Legionellosis;>>Toxoplasmosis;>>Measles;>>Lipid and atherosclerosis
<b>Gene Name :</b>	HSPA8
<b>Protein Name :</b>	Heat shock cognate 71 kDa protein
<b>Human Gene Id :</b>	3312
<b>Human Swiss Prot No :</b>	P11142
<b>Mouse Gene Id :</b>	15481
<b>Mouse Swiss Prot No :</b>	P63017
<b>Rat Gene Id :</b>	24468
<b>Rat Swiss Prot No :</b>	P63018
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human HSC 70. AA range:202-251
<b>Specificity :</b>	HSC 70 Polyclonal Antibody detects endogenous levels of HSC 70 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	70kD
<b>Cell Pathway :</b>	Spliceosome;MAPK_ERK_Growth;MAPK_G_Protein;Endocytosis;Antigen processing and presentation;
<b>Background :</b>	This gene encodes a member of the heat shock protein 70 family, which contains both heat-inducible and constitutively expressed members. This protein belongs to the latter group, which are also referred to as heat-shock cognate proteins. It functions as a chaperone, and binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011],
<b>Function :</b>	function:Chaperone. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones.,induction:Constitutively synthesized.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the heat shock protein 70 family.,subcellular location:Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Interacts with HSPH1/HSP105. Interacts with IRAK1BP1 (By similarity). Interacts with PACRG and TSC2. Interacts with SV40 VP1.,tissue specificity:Ubiquitous.,
<b>Subcellular Location :</b>	Cytoplasm. Melanosome. Nucleus, nucleolus. Cell membrane. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock.
<b>Expression :</b>	Ubiquitous.

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## Products Images



Western Blot analysis of various cells using HSC 70 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HepG2 cells using HSC 70 Polyclonal Antibody diluted at 1:2000