

HSC 70 Polyclonal Antibody

Catalog No: YN5559

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF

Target: HSC70

Fields: >>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

Gene Name: HSPA8

Protein Name: Heat shock cognate 71 kDa protein

P11142

P63017

Human Gene ld: 3312

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Rat Swiss Prot No: P63018

Immunogen: Synthesized peptide derived from the Internal region of human HSC 70. AA

range: 588-638

Specificity: The antibody detects endogenous HSC 70 protein.

Formulation: PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

50% Glycerol.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000.IHC:1:50-300.. IF 1:50-200



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 70-72kD

Cell Pathway : Spliceosome;MAPK_ERK_Growth;MAPK_G_Protein;Endocytosis;Antigen

processing and presentation;

Background: 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],

Function: 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.

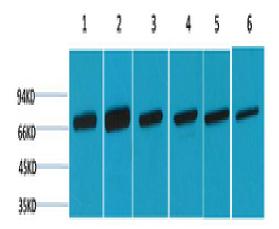
Interacts with SV40 VP1.,tissue specificity:Ubiquitous.,

Subcellular Location : 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

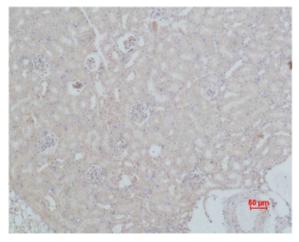
shock.

Expression : Ubiquitous.

Products Images



Western blot analysis of 1) Hela, 2) HepG2, 3) Raw, 4) Mouse Brain, 5) Rat Brain, 6) Rat Liver using HSC 70 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded Mouse Kidney Tissue using HSC 70 Polyclonal Antibody.