Immunoway
Best Tools for immunology Research

Hsp70 (PT0218R) PT® Rabbit mAb

Catalog No :	YM8139
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	HSP70
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 :	HSPA1A;HSPA1B
Protein Name :	Heat shock 70 kDa protein 1A/1B
Human Gene Id :	3303/3304
Human Swiss Prot No :	P0DMV8;P0DMV9;
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:400-1000,WB 1:1000-5000,IF 1:200-1000,ELISA 1:5000-20000,IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	70kD
Observed Band :	70kD

Cell Pathway : Spliceosome;MAPK_ERK_Growth;MAPK_G_Protein;Endocytosis;Antigen processing and presentation;Prion diseases;

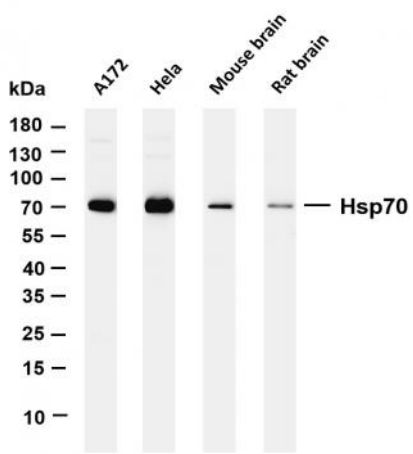
Background : This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008],

Function : function:In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. In case of rotavirus A infection, serves as a post-attachment receptor for the virus to facilitate entry into the cell.,induction:By heat shock.,similarity:Belongs to the heat shock protein 70 family.,subunit:HSPA1B is found in a sperm-specific complex with CATSPER1 and CATSPERB (By similarity). Interacts with TSC2. Interacts with IRAK1BP1.,tissue specificity:HSPA1B is testis-specific

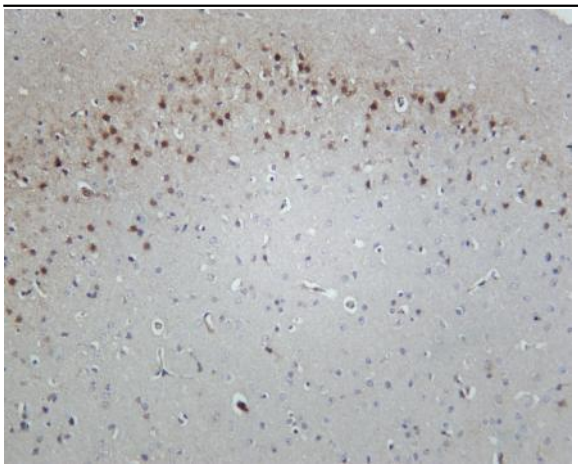
Subcellular Location : Nucleus

Expression : Brain,Cajal-Retzius cell,Embryonic kidney,Epithelium,Fetal

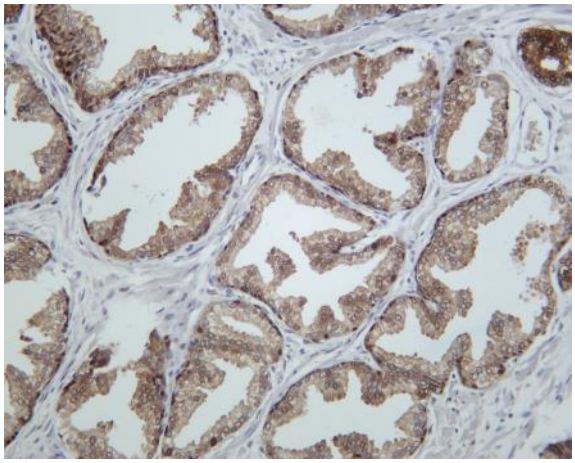
Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Hsp70 (PT0218R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A172 Lane 2: Hela Lane 3: Mouse brain Lane 4: Rat brain Predicted band size: 70kDa Observed band size: 70kDa



Mouse brain was stained with Anti-Hsp70 (PT0218R) rabbit antibody



Human prostate was stained with Anti-Hsp70 (PT0218R) rabbit antibody