



Hsp70 Rabbit mAb

Catalog No	YP-rAb-18049
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	HSPA1A;HSPA1B
Protein Name	Heat shock 70 kDa protein 1A/1B
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:400-1000; WB 1:1000-5000; IF 1:200-1000; ELISA 1:5000-20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	HSPA1A ; HSPA1 ; HSPA1B ; Heat shock 70 kDa protein 1A/1B ; Heat shock 70 kDa protein 1/2 ; HSP70-1/HSP70-2 ; HSP70.1/HSP70.2
Observed Band	70kD
Calculated Molecular Weight	70kD
Cell Pathway	Nucleus
Tissue Specificity	Brain,Cajal-Retzius cell,Embryonic kidney,Epithelium,Fetal
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.,





Background

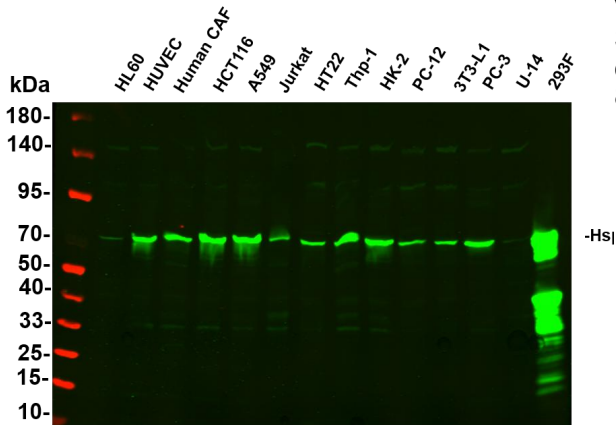
This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. 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],

matters needing attention

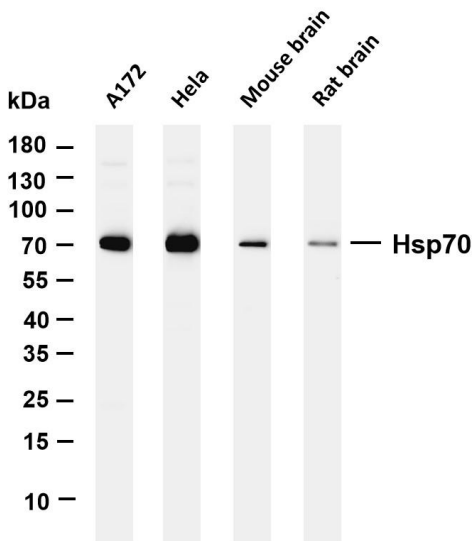
Avoid repeated freezing and thawing!

Usage suggestions

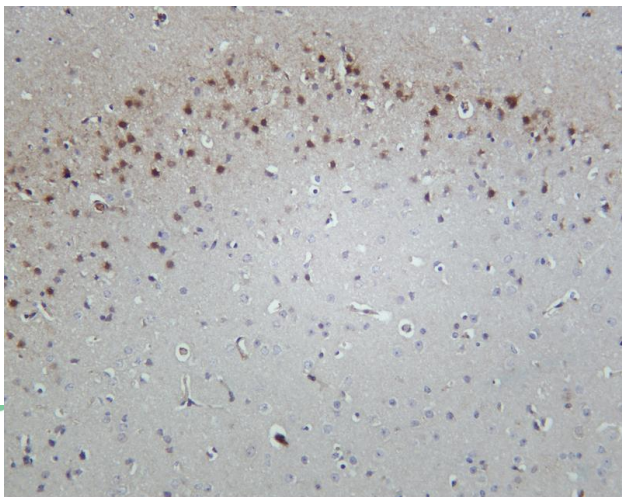
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody

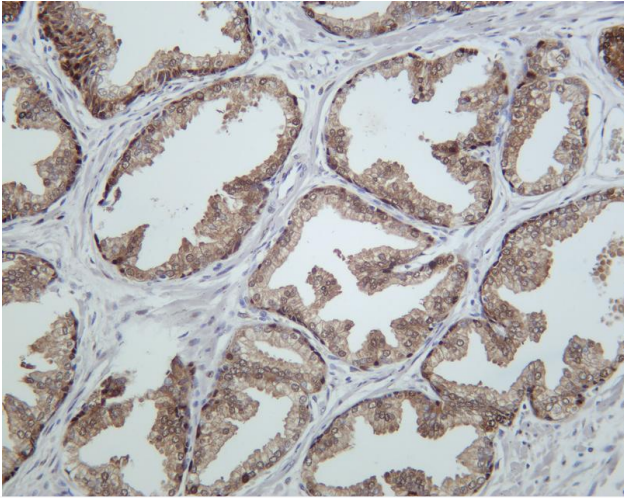


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Hsp70 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A172 Lane 2: HeLa Lane 3: Mouse brain Lane 4: Rat brain Predicted band size: 70kDa Observed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

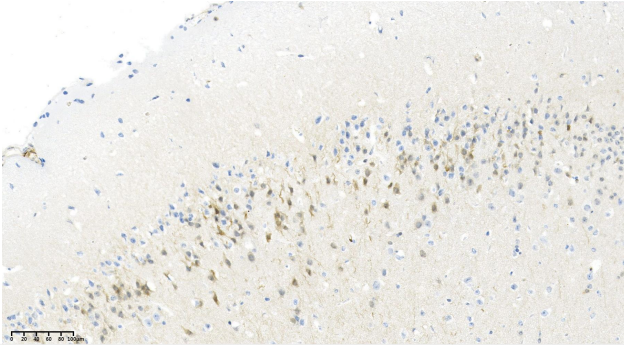


Mouse brain was stained with Anti-Hsp70 rabbit antibody





Human prostate was stained with Anti-Hsp70 rabbit antibody



Mouse brain was stained with anti-Hsp70 Rabbit antibody

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