
Product Name: KD-Validated HSPA1A Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01436

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 70.1kDa

Antigen Information

Gene Name	HSPA1A HSPA1A; Heat Shock Protein Family A (Hsp70) Member 1A; HSP70-1; HSPA1; Heat Shock 70 KDa Protein 1A; Heat Shock 70kDa Protein 1A; Heat Shock 70 KDa Protein 1; Heat Shock 70kD Protein 1A; HSP70.1; HSP72; Epididymis Secretory Sperm Binding Protein; DnaK-Type
Alternative Names	Molecular Chaperone HSP70-1; Epididymis Secretory Protein Li 103; Heat Shock 70 KDa Protein 1A/1B; Heat Shock 70 KDa Protein 1/2; Heat Shock 70 KDa Protein 1B; Heat Shock 70 KDa Protein 2; Heat Shock-Induced Protein; HSP70-1/HSP70-2; HSP70.1/HSP70.2; HEL-S-103; HSP70-1A; HSP70-2; HSP70.2; HSP70I; HSP70; HSX70
Gene ID	3303.0
SwissProt ID	P0DMV8
Immunogen	A synthesized peptide derived from human Hsp70

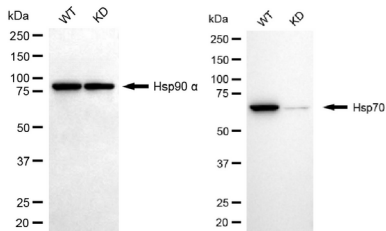
Background

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]

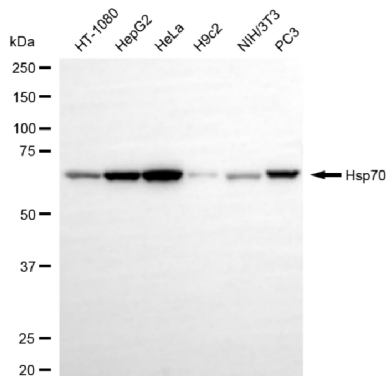
Research Area

Signal Transduction,Cancer,Neuroscience

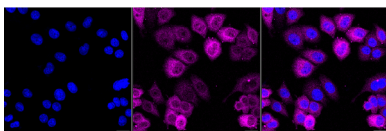
Image Data



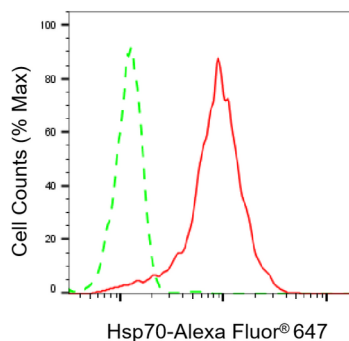
Western blotting analysis using Hsp70 antibody (KVA01436). Hsp70 expression in wild type (WT) and HSPA1A knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Hsp70 antibody (KVA01436, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using hsp70 antibody (KVA01436). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with hsp70 antibody (KVA01436, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Hsp70 antibody (KVA01436, 1:1,000). Nuclei were stained blue with DAPI; Hsp70 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Hsp70 expression in HepG2 cells using Hsp70 antibody (KVA01436, 1:2,000). Green, isotype control; red, Hsp70.

