

Product Name: KD-Validated Hsc70 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01518**

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: 70.9kDa

Antigen Information

Gene Name	HSPA8 HSPA8; Heat Shock Protein Family A (Hsp70) Member 8; HSC70; HSP73; HSPA10; HSC71; Lipopolysaccharide-Associated Protein 1; Heat Shock Cognate 71 kDa Protein; Heat Shock 70kDa Protein 8; LPS-Associated Protein 1; LAP-1; Epididymis Secretory Sperm Binding
Alternative Names	Protein Li 72p; N-Myristoyltransferase Inhibitor Protein 71; Constitutive Heat Shock Protein 70; Epididymis Luminal Protein 33; Heat Shock Cognate Protein 54; Heat Shock 70 kDa Protein 8; Heat Shock 70kd Protein 10; Heat Shock 70kd Protein 8; EC 3.6.4.10; HEL-S-72p; HEL-33; HSC54; HSP71; NIP71; LAP1
Gene ID	3312.0
SwissProt ID	P11142
Immunogen	A synthesized peptide derived from human Hsc70

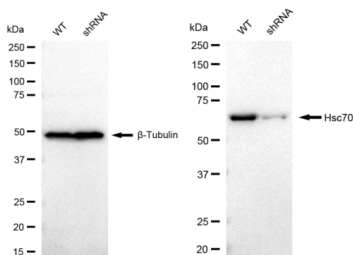
Background

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]

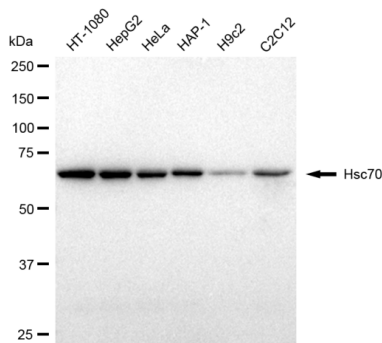
Research Area

Signal Transduction

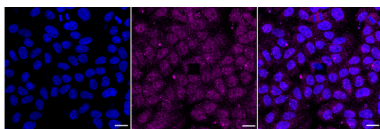
Image Data



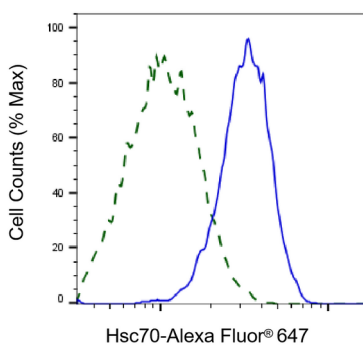
Western blotting analysis using Hsc70 antibody (KVA01518). Hsc70 expression in wild type (WT) and Hsc70 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Hsc70 antibody (KVA01518, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



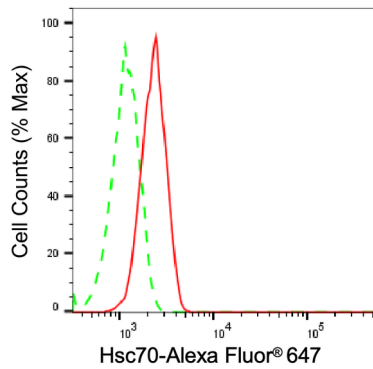
Western blotting analysis using Hsc70 antibody (KVA01518). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Hsc70 antibody (KVA01518, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Hsc70 antibody (KVA01518, 1:1,000). Nuclei were stained blue with DAPI; Hsc70 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.



Validation of Hsc70 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) 293T cells were stained with Hsc70 antibody (KVA01518, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Hsc70 expression in HT-1080 cells using Hsc70 antibody (KVA01518, 1:2,000). Green, isotype control; red, Hsc70.