

Product Name: KD-Validated Hsp22 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01810**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
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 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 21.6kDa

Antigen Information

Gene Name	HSPB8
Alternative Names	HSPB8; Heat Shock Protein Family B (Small) Member 8; E2IG1; HSP22; CMT2L; H11; Small Stress Protein-Like Protein HSP22; Heat Shock 27kDa Protein 8; Heat Shock 22kDa Protein 8; Heat Shock Protein Beta-8; E2-Induced Gene 1 Protein; Alpha-Crystallin C Chain; Protein Kinase H11; HSPB8-N1; HSPB8-N2; DHMN2; HMN2A; CRYAC; HspB8; HMN2
Gene ID	26353.0
SwissProt ID	Q9UJY1
Immunogen	A synthesized peptide derived from human HSPB8/HSP22

Background

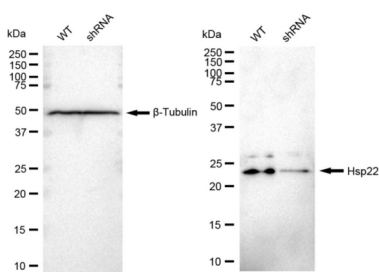
The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-

crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]

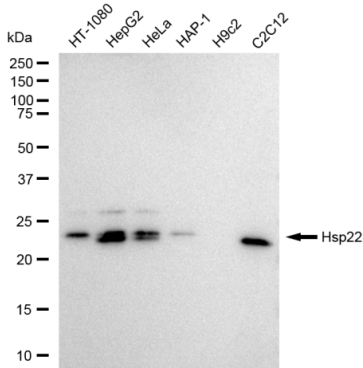
Research Area

Signal Transduction, Neuroscience

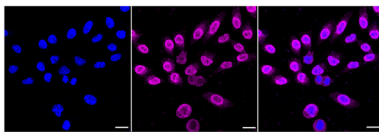
Image Data



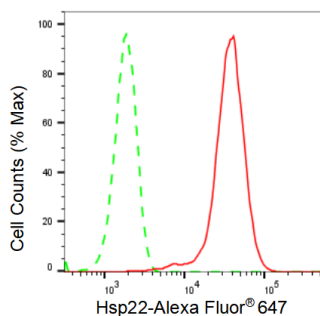
Western blotting analysis using Hsp22 antibody (KVA01810). Hsp22 expression in wild type (WT) and Hsp22 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Hsp22 antibody (KVA01810, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Hsp22 antibody (KVA01810). Total cell lysates (50 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Hsp22 antibody (KVA01810, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Hsp22 antibody (KVA01810, 1:1,000). Nuclei were stained blue with DAPI; Hsp22 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 Hsp22 expression in HepG2 cells using Hsp22 antibody (KVA01810, 1:2,000). Green, isotype control; red, Hsp22.