
Product Name: KD-Validated Heat Shock Transcription Factor 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00716

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 57.3kDa

Antigen Information

Gene Name	HSF1
Alternative Names	HSF1; Heat Shock Transcription Factor 1; HSTF1; Heat Shock Factor Protein 1; HSTF; HSF
Gene ID	3297.0
SwissProt ID	Q00613
Immunogen	A synthesized peptide derived from human HSF1

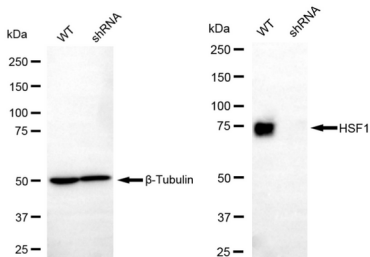
Background

The product of this gene is a transcription factor that is rapidly induced after temperature stress and binds heat shock promoter elements (HSE). This protein plays a role in the regulation of lifespan. Expression of this gene is repressed by phosphorylation, which promotes binding by heat shock protein 90. [provided by RefSeq, Jul 2017]

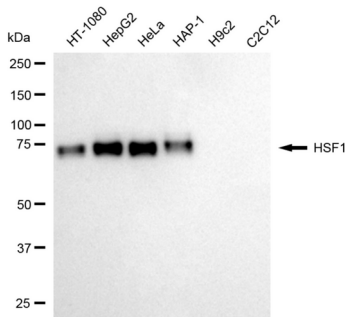
Research Area

Tags & Cell Markers, Epigenetics and Nuclear Signaling, Cardiovascular

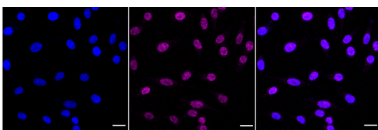
Image Data



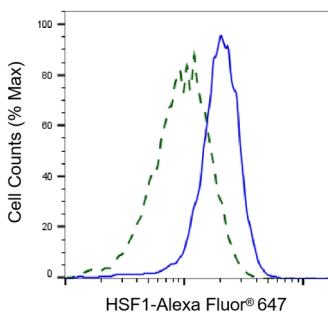
Western blotting analysis using HSF1 antibody (KVA00716). HSF1 expression in wild type (WT) and HSF1 shRNA knockdown (KD) 293T cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with HSF1 antibody (KVA00716, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



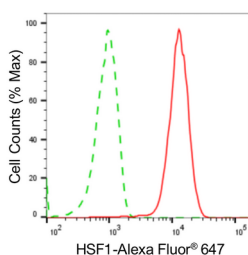
Western blotting analysis using HSF1 antibody (KVA00716). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HSF1 antibody (KVA00716, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. HSF1, heat shock transcription factor 1.



Immunocytochemical staining of HepG2 cells with HSF1 antibody (KVA00716, 1:1,000). Nuclei were stained blue with DAPI; HSF1 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 HSF1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) 293T cells were stained with HSF1 antibody (KVA00716, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of HSF1 expression in HepG2 cells using HSF1 antibody (KVA00716, 1:2,000). Green, isotype control; red, HSF1.