

Product Name: KD-Validated Phospho-HSF1 (Ser303/Ser307) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00712

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 Phospho-HSF1 (Ser303/Ser307)

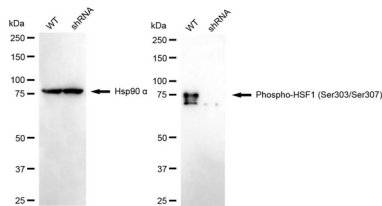
Background

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]

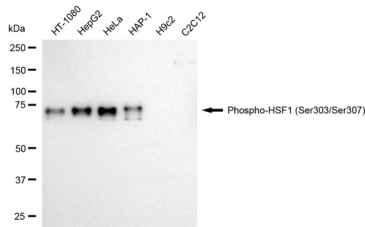
Research Area

Tags & Cell Markers, Epigenetics and Nuclear Signaling, Cardiovascular

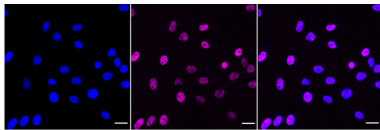
Image Data



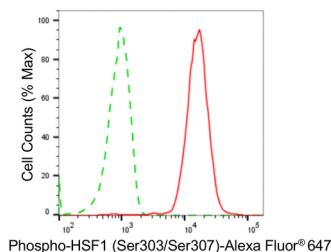
Western blotting analysis using phospho-HSF1 (Ser303/Ser307) antibody (KVA00712). Phospho-HSF1 (Ser303/Ser307) expression in wild type (WT) and HSF1 shRNA knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-HSF1 (Ser303/Ser307) antibody (KVA00712, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. HSF1, heat shock transcription factor 1.



Western blotting analysis using phospho-HSF1 (Ser303/Ser307) antibody (KVA00712). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-HSF1 (Ser303/Ser307) antibody (KVA00712, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with phospho-HSF1 (Ser303/Ser307) antibody (KVA00712, 1:1,000). Nuclei were stained blue with DAPI; Phospho-HSF1 (Ser303/Ser307) 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 Phospho-HSF1 (Ser303/Ser307) expression in HepG2 cells using Phospho-HSF1 (Ser303/Ser307) antibody (KVA00712, 1:2,000). Green, isotype control; red, Phospho-HSF1 (Ser303/Ser307).