

KD-Validated Anti-Heat Shock Transcription Factor 1 Rabbit Monoclonal Antibody



Catalog #: 63381

Aliases

HSF1; Heat Shock Transcription Factor 1; HSTF1; Heat Shock Factor Protein 1; HSTF; HSF

Background

Gene Name: HSF1

NCBI Gene Entry: [3297](#)

UniProt Entry: [Q00613](#)

Application Information

Molecular Weight: Predicted, 57 kDa, observed, 75 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 24GB5405

Species Reactivity: Human

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human HSF1

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000

Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

Note: This product is for research use only.

Validation Data

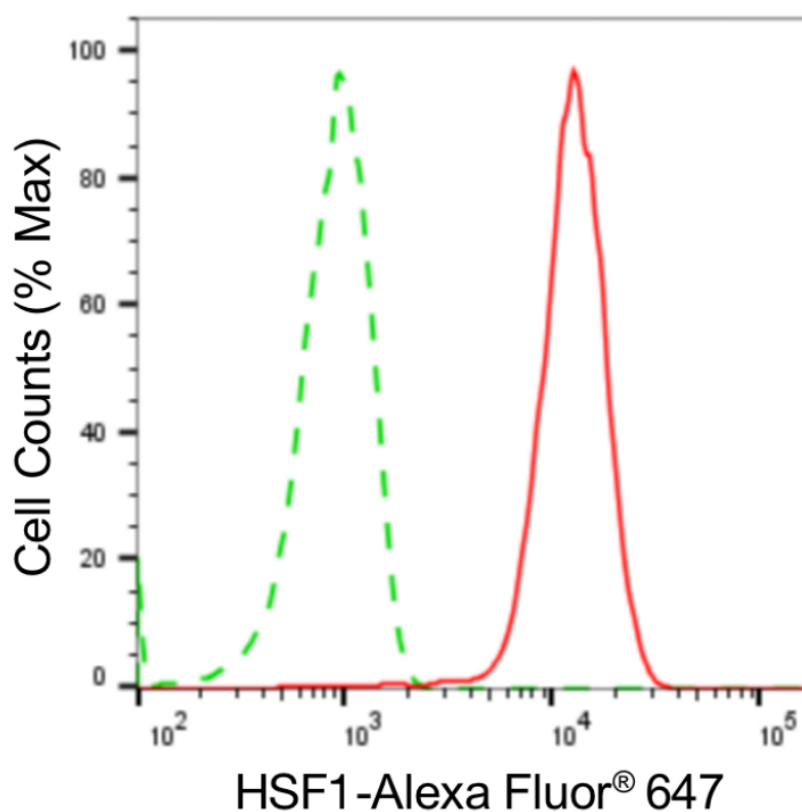
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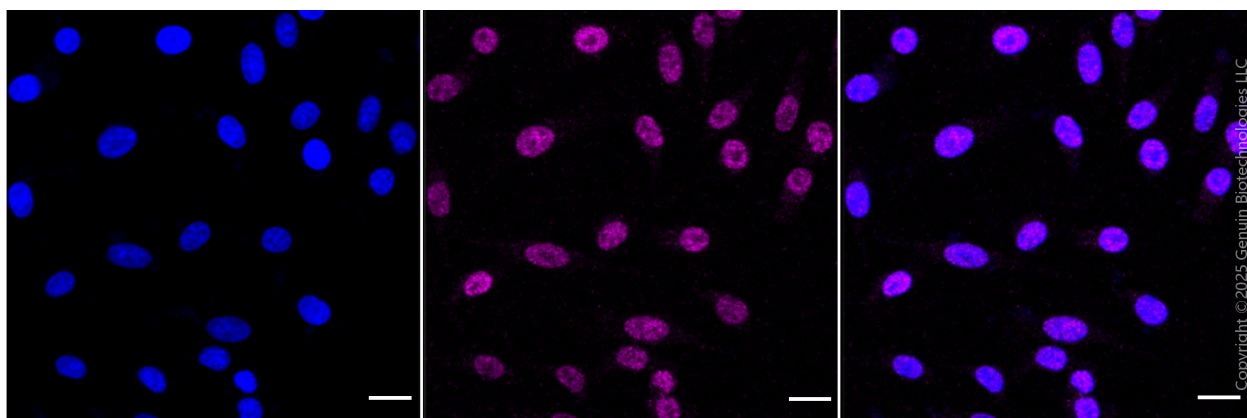
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Flow cytometric analysis of HSF1 expression in HepG2 cells using anti-HSF1 antibody (Cat#63381, 1:2,000). Green, isotype control; red, HSF1.



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Immunocytochemical staining of HepG2 cells with anti-HSF1 antibody (Cat#63381, 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 μ m.

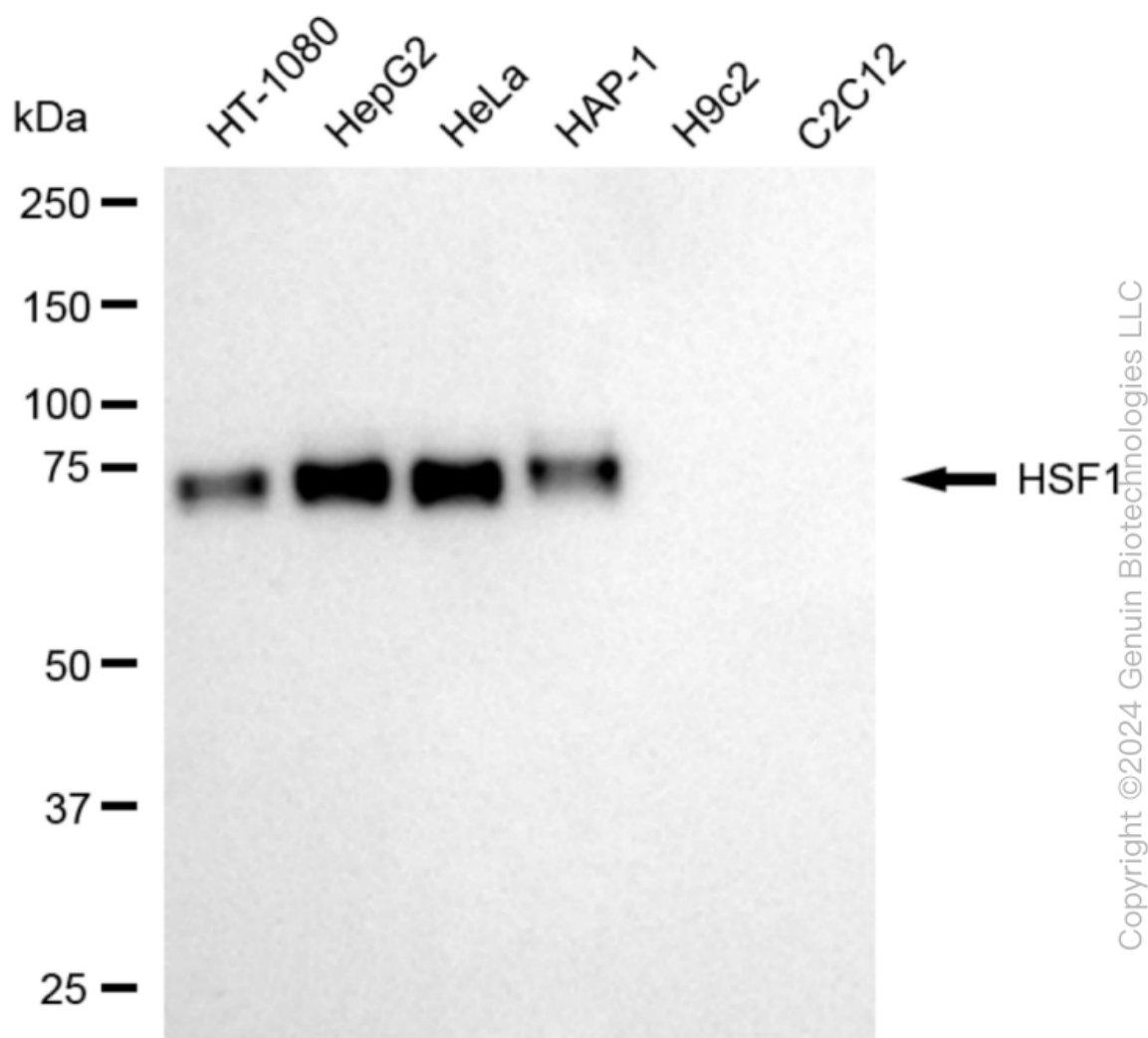
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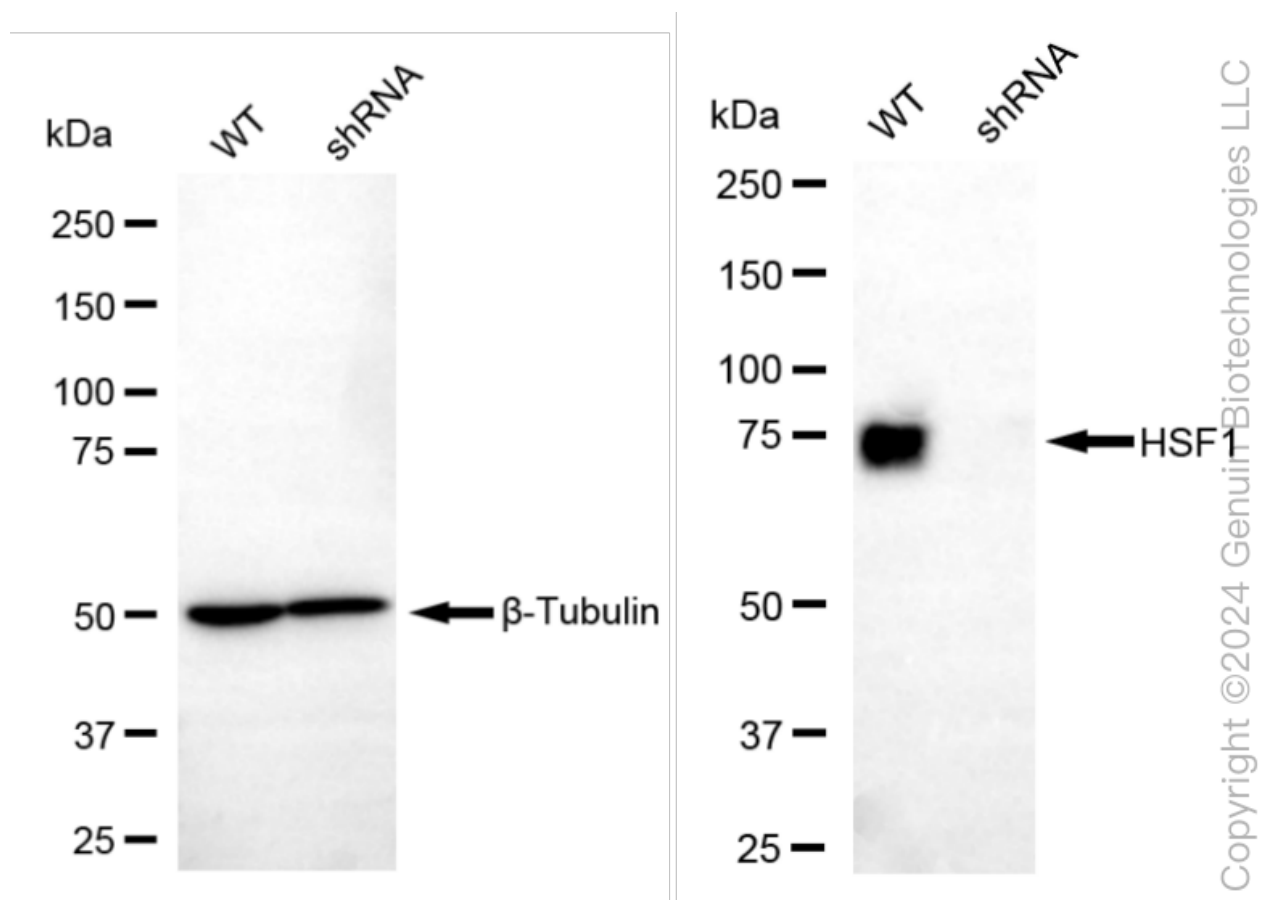
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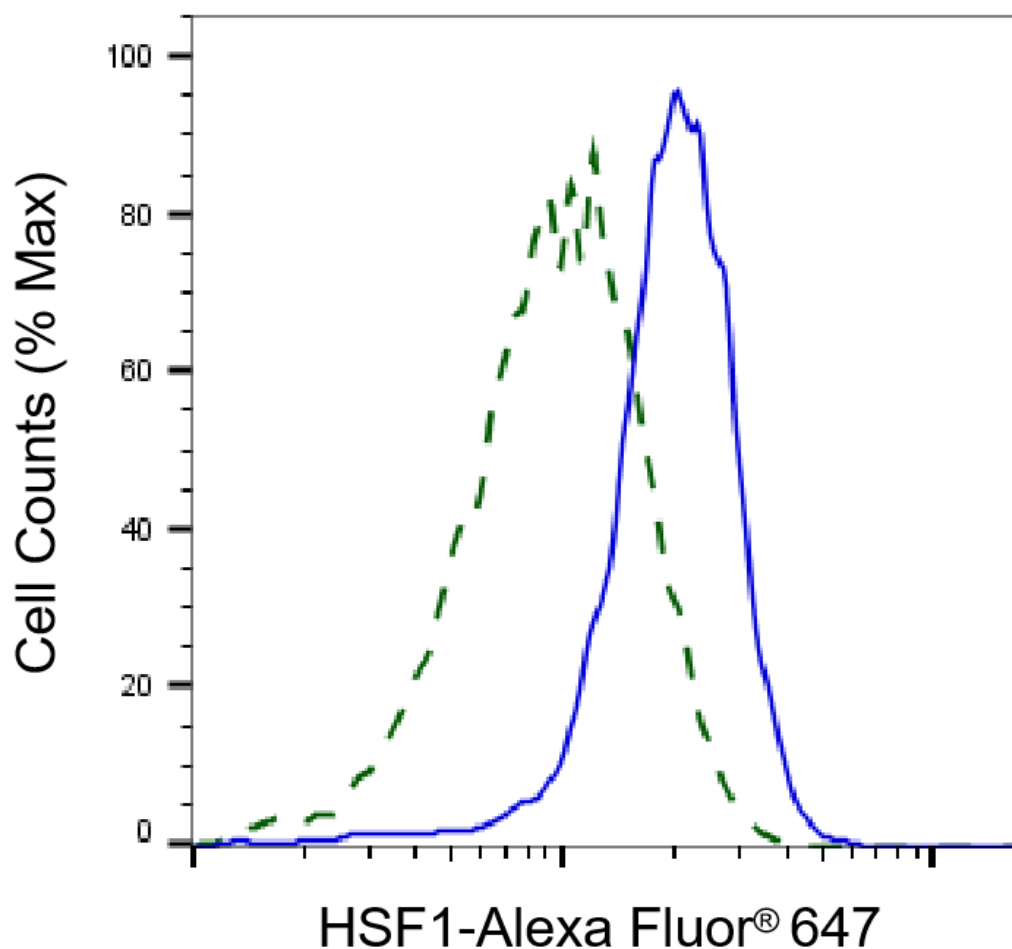
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Western blotting analysis using anti-HSF1 antibody (Cat#63381). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-HSF1 antibody (Cat#63381, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716). HSF1, heat shock transcription factor 1.



Western blotting analysis using anti-HSF1 antibody (Cat#63381). HSF1 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 anti-HSF1 antibody (Cat#63381, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



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Validation of HSF1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) 293T cells were stained with anti-HSF1 antibody (Cat#63381, 1:2,000) and analyzed using BD flow cytometer.