KD-Validated Anti-Heat shock transcription factor 1 Recombinant Rabbit Monoclonal

Catalog #: 61469

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, 80 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 23GB2715
Species Reactivity: Human
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), immunohistochemistry (IHC)

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
Immunohistochemistry (IHC): 1:100-1:200

Note: This product is for research use only.

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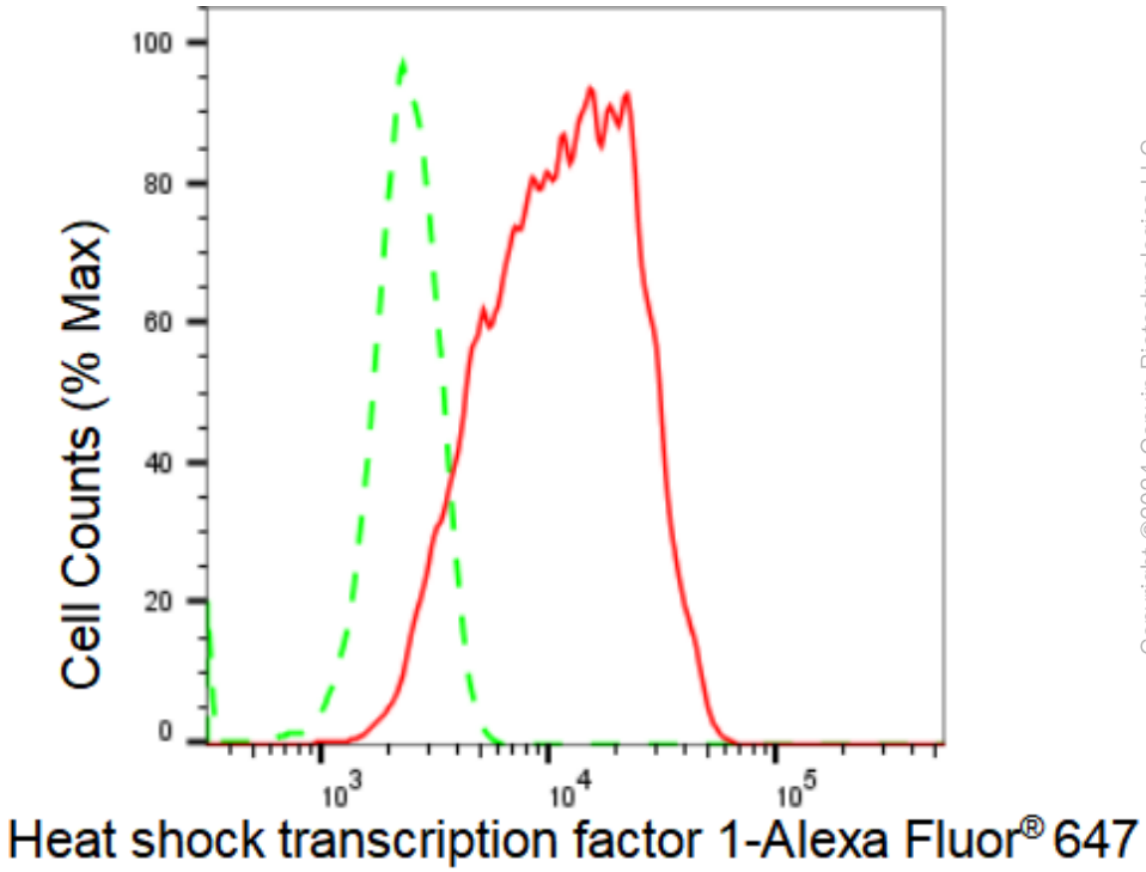
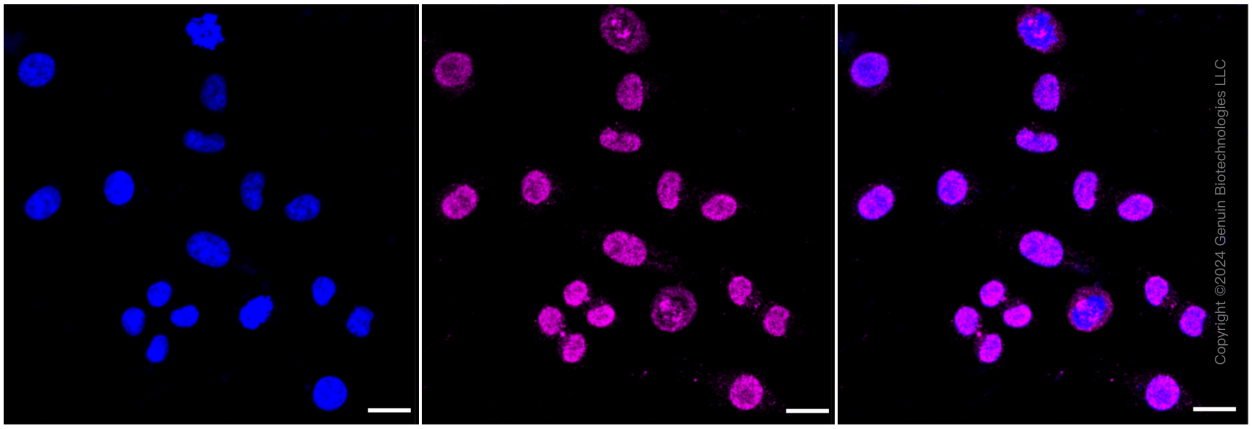
Validation Data



Flow cytometric analysis of Heat shock transcription factor 1 expression in HepG2 cells using Heat shock transcription factor 1 antibody (Cat#61469, 1:2,000). Green, isotype control; red, Heat shock transcription factor 1.



Immunocytochemical staining of HepG2 cells with Heat shock transcription factor 1 antibody (Cat#61469, 1:1,000). Nuclei were stained blue with DAPI; Heat shock transcription factor 1 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.

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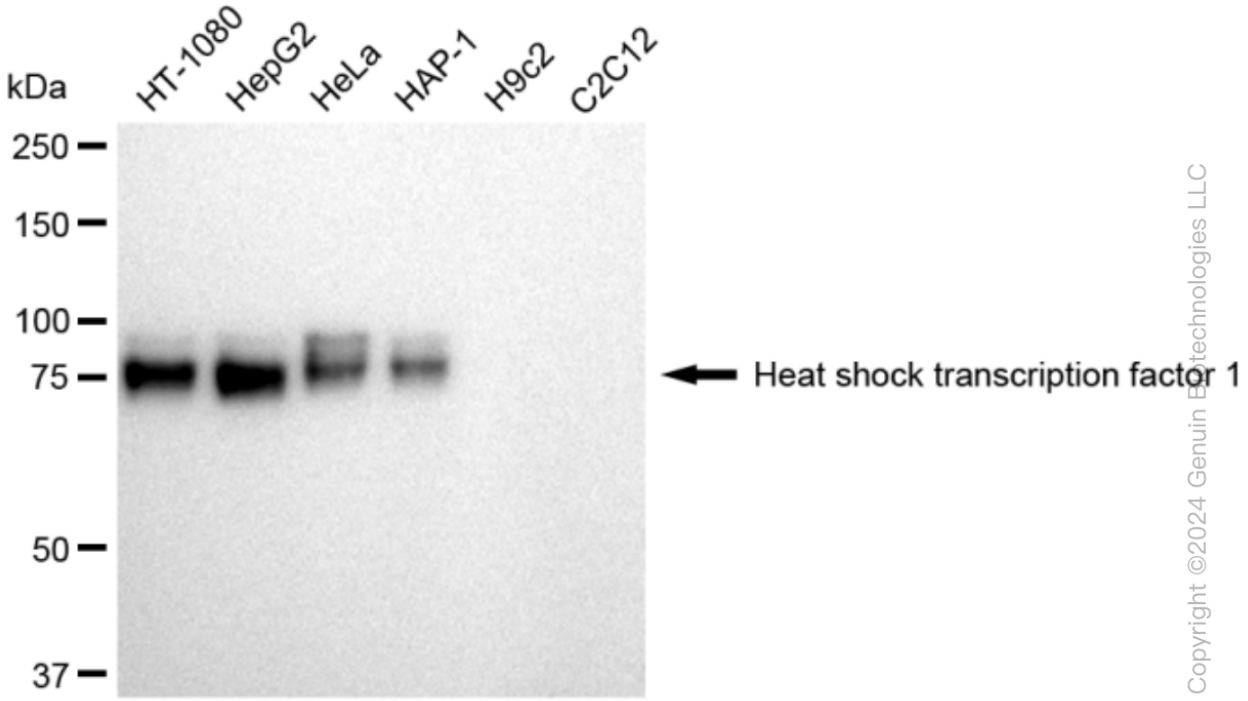
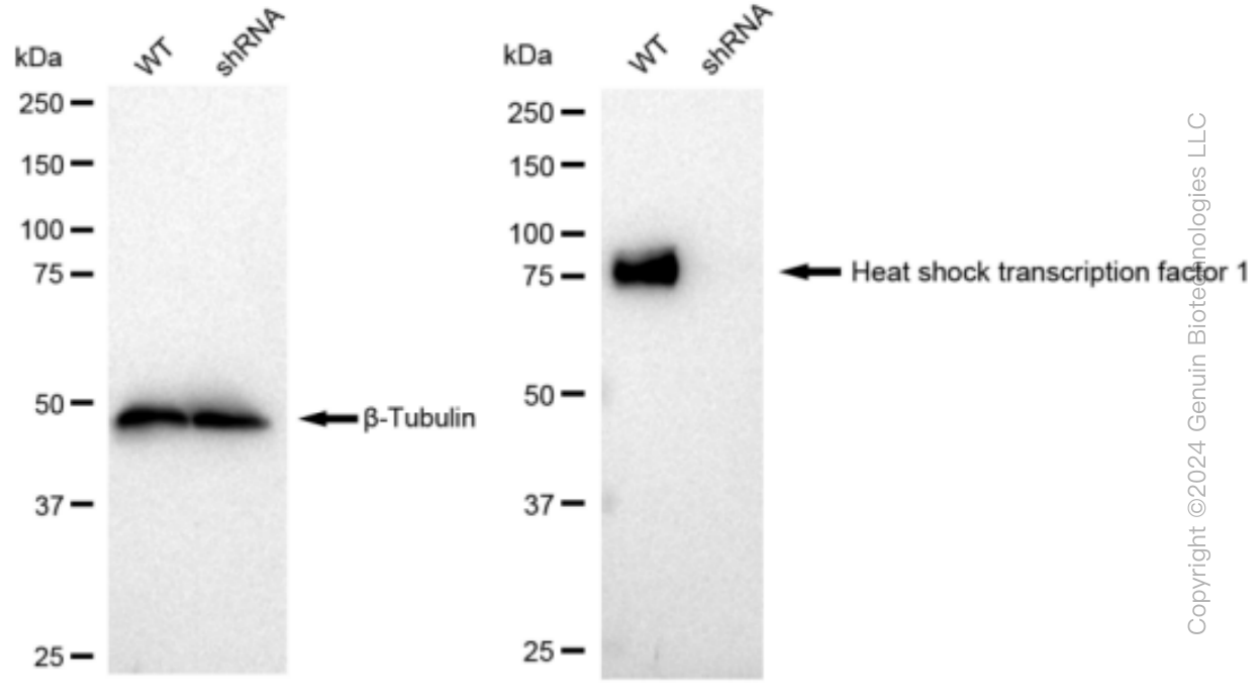


Western blotting analysis using anti-Heat shock transcription factor 1 antibody (Cat#61469). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Heat shock transcription factor 1 antibody (Cat#61469, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-Heat shock transcription factor 1 antibody (Cat#61469). Heat

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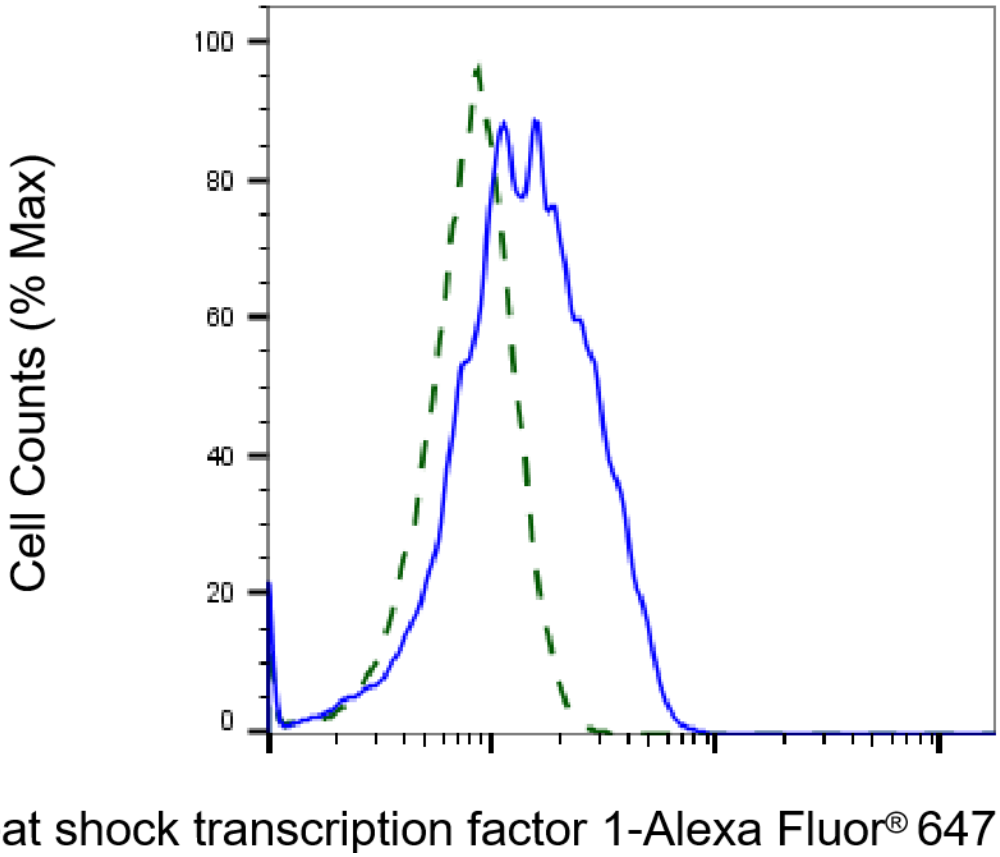
shock transcription factor 1 expression in wild type (WT) and heat shock transcription factor 1 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Heat shock transcription factor 1 antibody (Cat#61469, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Validation of Heat shock transcription factor 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) 293T cells were stained with anti-Heat shock transcription factor 1 antibody (Cat#61469, 1:2,000) and analyzed using BD flow cytometer.

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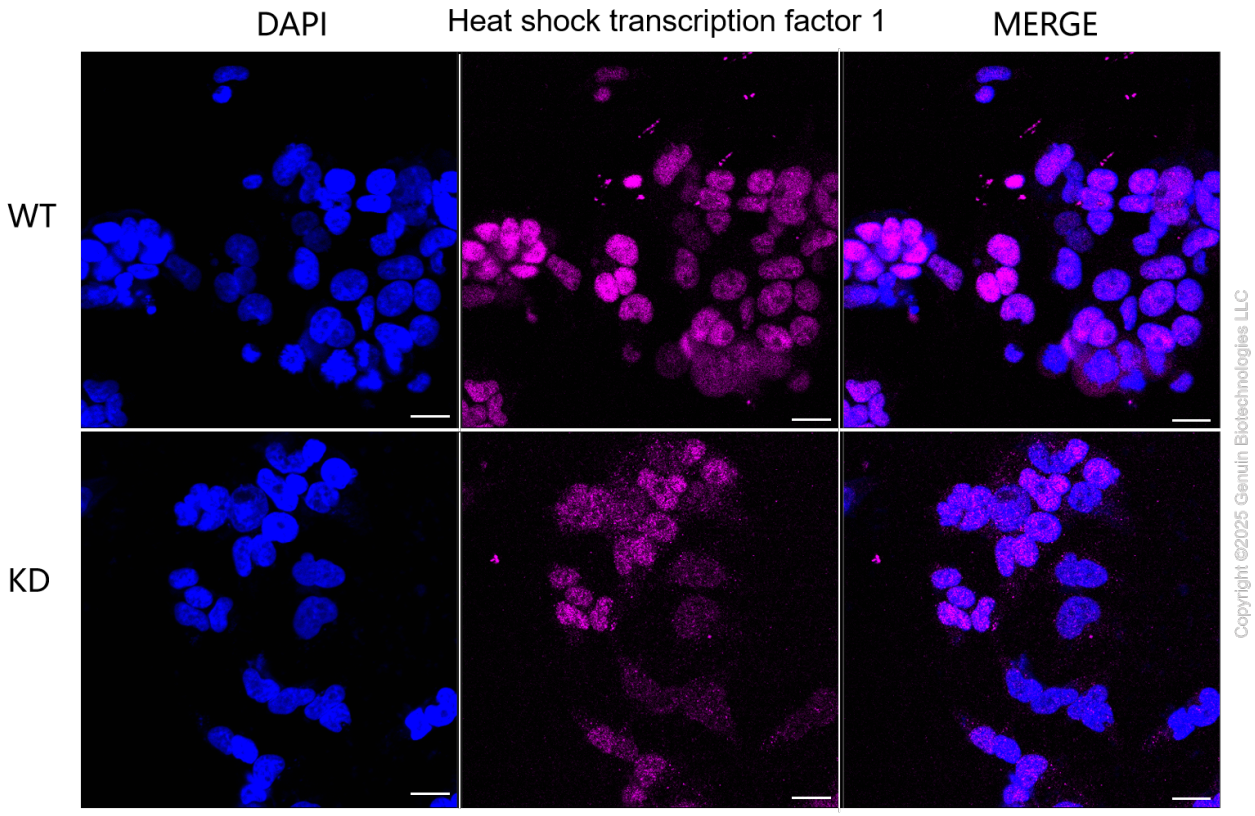

Immunocytochemical staining of 293T cells using anti-Heat shock transcription factor 1 antibody (Cat#61469, 1:1,000), Top panel: wild-type (WT); Bottom panal: Heat shock transcription factor 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Heat shock transcription factor 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

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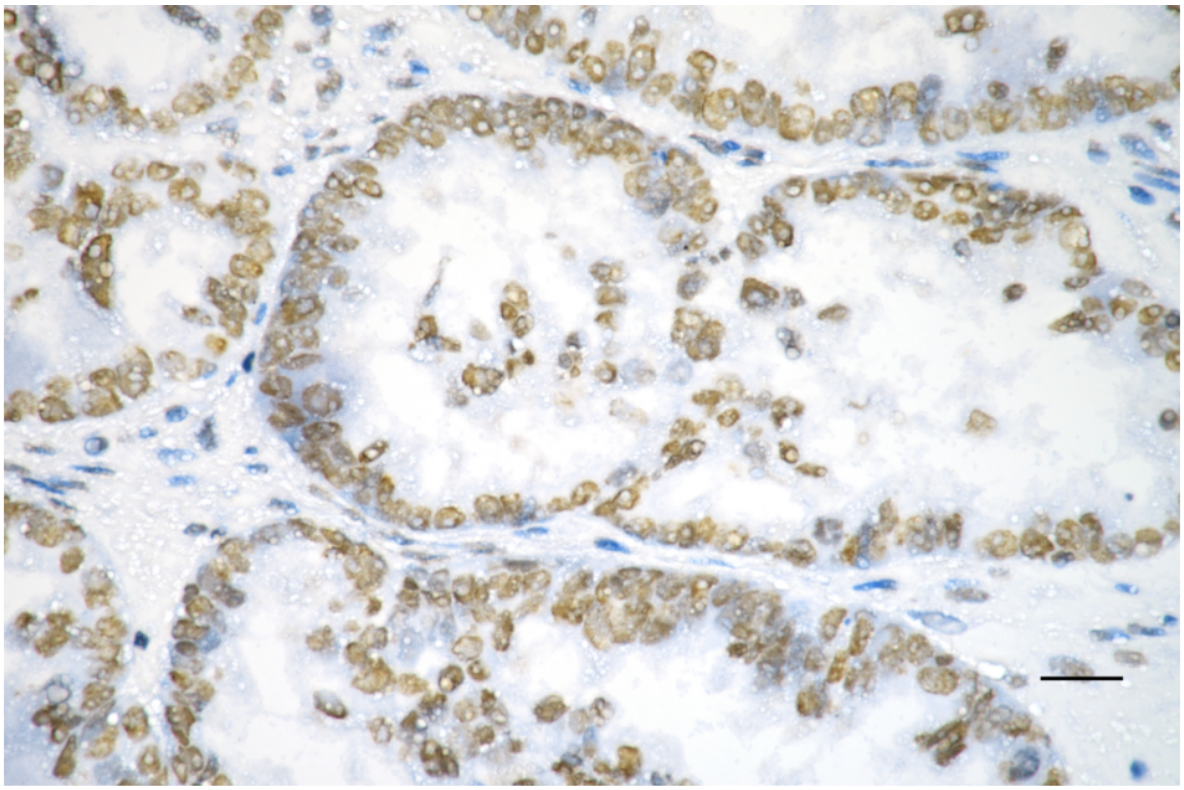

Immunohistochemistry was performed on paraffin-embedded human ovarian carcinoma using anti-heat shock transcription factor 1 antibody (Cat#61469, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.