

# Product Datasheet

## HSF1 Antibody (JE44-79) NBP3-32444

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32444**

HSF1 Antibody (JE44-79)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JE44-79
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
Target Molecular Weight	57 kDa
Product Description	
Host	Rabbit
Gene ID	3297
Gene Symbol	HSF1
Species	Human
Immunogen	Synthetic peptide within Human HSF1 aa 480-529 / 529. (Uniprot: Q00613)
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:1000



## Images

Western Blot: HSF1 Antibody (JE44-79) [NBP3-32444] - Western blot analysis of HSF1 on different lysates with Rabbit anti-HSF1 antibody (NBP3-32444) at 1/1,000 dilution.

Lane 1: HeLa cell lysate  
 Lane 2: U-2 OS cell lysate  
 Lane 3: MCF7 cell lysate  
 Lane 4: HEK-293 cell lysate  
 Lane 5: K-562 cell lysate  
 Lane 6: Jurkat cell lysate  
 Lane 7: A549 cell lysate  
 Lane 8: HepG2 cell lysate  
 Lane 9: LoVo cell lysate

Lysates/proteins at 15 ug/Lane.

Predicted band size: 57 kDa  
 Observed band size: 75 kDa

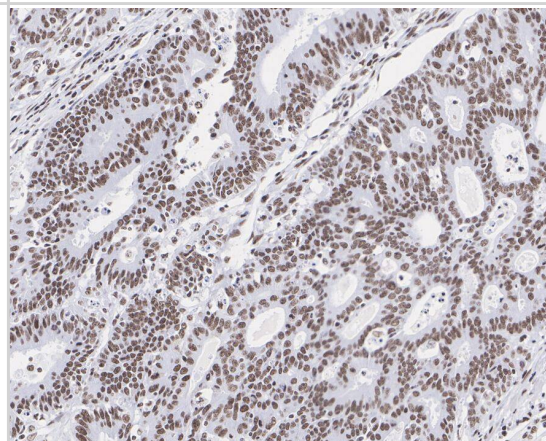
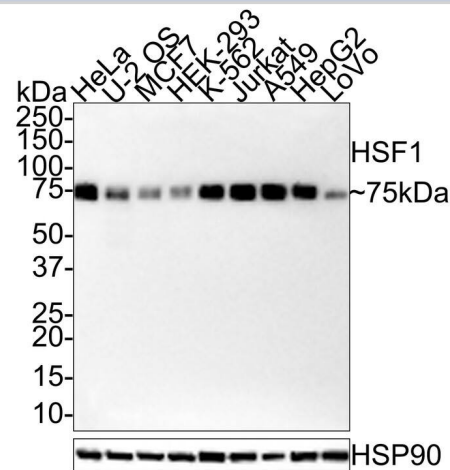
Exposure time: 1 minute;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32444) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.

Immunohistochemistry: HSF1 Antibody (JE44-79) [NBP3-32444] - Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-HSF1 antibody (NBP3-32444) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32444) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



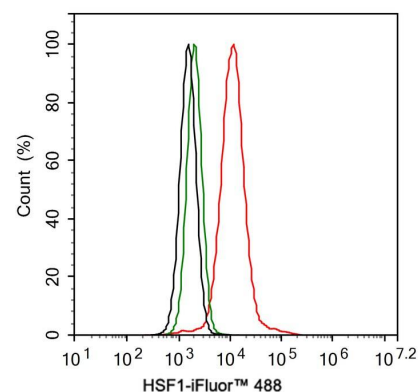
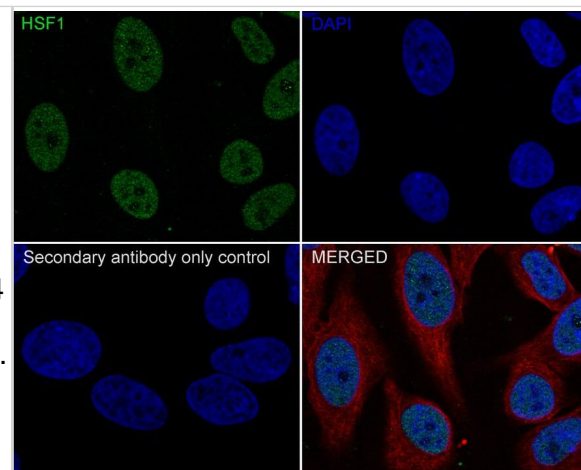
**Immunocytochemistry/ Immunofluorescence: HSF1 Antibody (JE44-79) [NBP3-32444]** - Immunocytochemistry analysis of HeLa cells labeling HSF1 with Rabbit anti-HSF1 antibody (NBP3-32444) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-HSF1 antibody (NBP3-32444) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/200 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: HSF1 Antibody (JE44-79) [NBP3-32444]** - Flow cytometric analysis of HeLa cells labeling HSF1.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32444, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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### **Products Related to NBP3-32444**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBC1-18373	Recombinant Human HSF1 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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