



Product Datasheet HSF1 Antibody (orb1184718)

Catalog Number orb1184718

Category Antibodies

Description Anti-HSF1 Antibody. Tested in Flow Cytometry, IHC, WB applications. This

antibody reacts with Human.

Clonality Polyclonal

Species/Host Rabbit

Isotype Rabbit IgG

Conjugation Unconjugated

Reactivity Human

Form/Appearance Lyophilized

Concentration Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

Purification Immunogen affinity purified.

Immunogen A synthetic peptide corresponding to a sequence at the C-terminus of human

HSF1, identical to the related mouse and rat sequences.

UniProt ID Q00613

MW 80 kDa

Tested applications FC, IHC, WB

Application notes Western blot, 0.1-0.25 μg/ml/ml, Human Immunohistochemistry(Paraffin-

embedded Section), 2-5 μ g/ml/ml, Human Flow Cytometry (Fixed), 1-3 μ g/ml/1x10^6 cells, Human. Adding 0.2 ml of distilled water will yield a

concentration of 500 µg/ml





Cross Reactivity No cross-reactivity with other proteins.

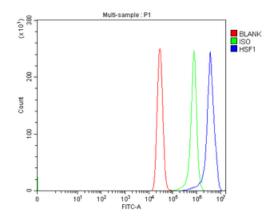
Antibody Type Primary Antibody

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -

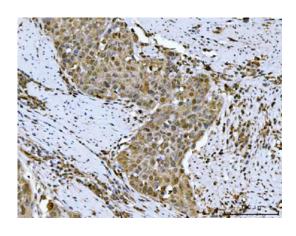
20°C in small aliquots to prevent freeze-thaw cycles.

Note For research use only

Expiration Date 12 months from date of receipt.



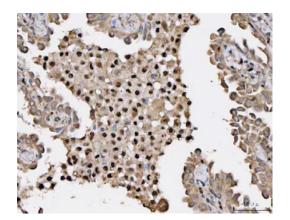
Flow Cytometry analysis of MCF-7 cells using anti-HSF1 antibody. Overlay histogram showing MCF-7 cells (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HSF1 Antibody (1 $\mu g/1x10^6$ cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (5-10 $\mu g/1x10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 $\mu g/1x10^6$) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



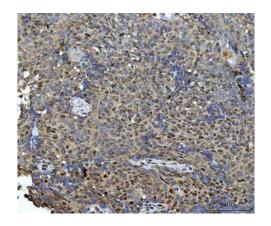
IHC analysis of HSF1 using anti-HSF1 antibody. HSF1 was detected in a paraffin-embedded section of human esophageal squamous carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μ g/ml rabbit anti-HSF1 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



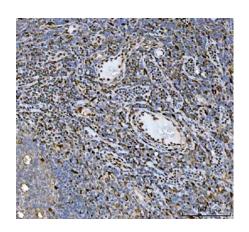




IHC analysis of HSF1 using anti-HSF1 antibody. HSF1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μ g/ml rabbit anti-HSF1 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC analysis of HSF1 using anti-HSF1 antibody. HSF1 was detected in a paraffin-embedded section of human squamous cell carcinoma of cervix tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μ g/ml rabbit anti-HSF1 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

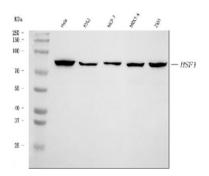


IHC analysis of HSF1 using anti-HSF1 antibody. HSF1 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 μ g/ml rabbit anti-HSF1 Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

Phone: <u>+1 (415) 906-5211</u> | Fax: <u>+1 (415) 651-8558</u>







Western blot analysis of HSF1 using anti-HSF1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human MOLT-4 whole cell lysates, Lane 5: human 293T whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HSF1 antigen affinity purified polyclonal antibody at 0.25 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HSF1 at approximately 80 kDa. The expected band size for HSF1 is at 57 kDa.

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