Product Datasheet

HSF4 Antibody

Catalog No: #48475

Package Size: #48475-1 50ul #48475-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

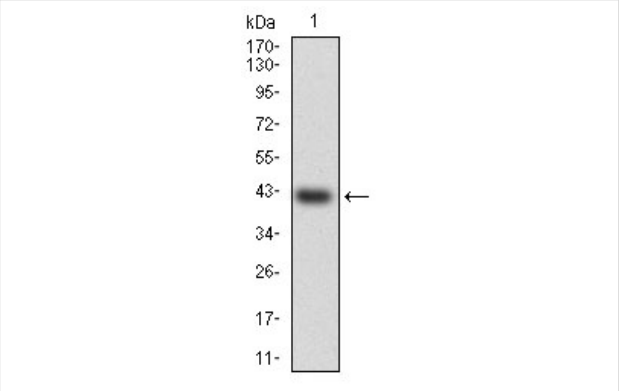
Description

Product Name	HSF4 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	A11-E7
Purification	ProA affinity purified
Applications	WB,FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	Cataract, Marner antibody CTM antibody Heat shock factor protein 4 antibody Heat shock transcription factor 4 antibody hHSF4 antibody HSF 4 antibody HSF4 antibody HSF4_HUMAN antibody HSTF 4 antibody
Accession No.	Swiss-Prot#:Q9ULV5
Uniprot	Q9ULV5
GeneID	3299;
Calculated MW	53 kDa
Formulation	1*TBS (pH7.4), 1%BSA, Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

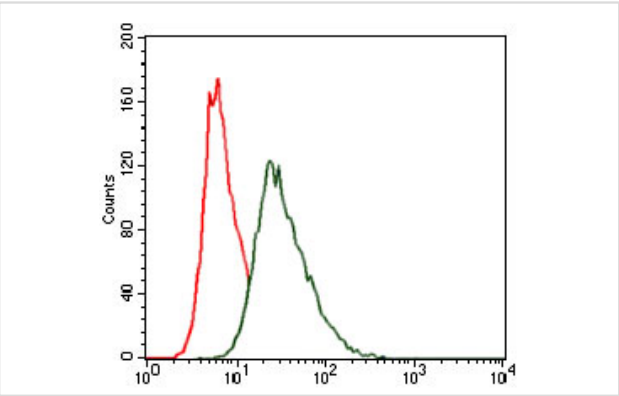
Application Details

WB: 1:500-1:1,000FC: 1:100-1:200

Images



Western blot analysis of HSF4 on human HSF4 recombinant protein using anti-HSF4 antibody at 1/1,000 dilution.



Flow cytometric analysis of HeLa cells with HSF4 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Background

Heat shock transcription factors (HSF, also designated HSTF) 1 and 2 are involved in this regulation. HSF1 and HSF2 are upregulated by estrogen, at both the mRNA and protein level. HSF1 is normally found as a monomer, whose transcriptional activity is repressed by constitutive phosphorylation. Upon activation, HSF1 forms trimers, gains DNA binding activity and is translocated to the nucleus. HSF2 activity is associated with differentiation and development, and, like HSF1, binds DNA as a trimer. HSF4 exists as two splice variants and is expressed in heart, brain and skeletal muscle as a homotrimer. HSF4a does not contain a DNA-binding domain and inhibits the formation of HSF1 nuclear bodies, thus repressing HSF1 mediated transcription. HSF4b does contain a DNA-binding domain and colocalizes with HSF1 nuclear bodies after heat shock.

References

Note: This product is for in vitro research use only