

Datasheet: VMA00893

BATCH NUMBER 64595771

Description:	MOUSE ANTI HSF1
Specificity:	HSF1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD01/1B5
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000 - 1/2000
Immunofluorescence	▪			

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - Liquid
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-529 of human HSF1

External Database

Links

UniProt:

[Q00613](#) [Related reagents](#)

Entrez Gene:

[3297](#) HSF1 [Related reagents](#)

Synonyms

HSTF1

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti HSF1 antibody, clone CD01/1B5 recognizes heat shock factor protein 1.

HSF1 is a stress-induced DNA-binding transcription factor that plays a critical role in the heat shock response, protecting cells from cellular damage. In unstressed cells, HSF1 is found in a chaperone complex that maintains it in a non-DNA-binding form. Under conditions of temperature stress or other environmental perturbations, HSF1 translocates from the cytosol to the nucleus where it promotes transcription of heat shock proteins (HSPs) ([Li et al. 2017](#)). HSF1 is constitutively activated in malignant cells, and cancer cells become dependent on HSF1 for growth and survival. Furthermore, high levels of HSF1 have been found to correlate with poor clinical outcomes in some cancer types ([Carpenter et al. 2017](#)). HSF1 has been suggested as a target for cancer therapy ([Dai 2018](#)).

Western Blotting

Mouse anti HSF1 antibody detects a band of approximately 75 kDa in HeLa cell lysates

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00893>
Antibody (10040)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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