

## Datasheet: VMA00893

<b>Description:</b>	MOUSE ANTI HSF1
<b>Specificity:</b>	HSF1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	CD01/1B5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
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.

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

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

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**External Database**

**Links**

**UniProt:**

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

**Entrez Gene:**

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

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**Synonyms**

HSTF1

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**Fusion Partners**

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

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**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](#)).

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**Western Blotting**

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

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**Storage**

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

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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