

Datasheet: VMA00042

| | |
|----------------------|----------------------------------|
| Description: | MOUSE ANTI HEAT SHOCK PROTEIN 70 |
| Specificity: | HEAT SHOCK PROTEIN 70 |
| Other names: | HSP70 |
| Format: | Purified |
| Product Type: | PrecisionAb Monoclonal |
| Clone: | 40000000 |
| 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 |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | | | ▪ | |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | ▪ | | | |
| ELISA | ▪ | | | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 1/1000 |

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 purified by affinity chromatography on Protein G from ascites. |
| Buffer Solution | Phosphate buffered saline. |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃). |

Immunogen Recombinant human HSP70, amino acids 1-641, purified from *E. coli*

External Database

Links

UniProt:

[P08107](#) [Related reagents](#)

Entrez Gene:

[3304](#) HSPA1B [Related reagents](#)

Synonyms

HSPA1

Specificity

Mouse anti Human heat shock protein 70 antibody recognizes human heat shock protein 70 (HSP70), also known as heat shock 70 kDa protein 1A/1B, a 641 amino acid member of the HSP70 family expressed in the cytoplasm, which range in size from 66-78 kDa.

Heat shock proteins are a group of heat- or stress-inducible proteins which act as molecular chaperones and as essential regulators of cellular processes, including protein folding. HSP70 acts alongside other chaperones to mediate the folding of newly-synthesized peptide sequences, stabilize proteins against aggregation and assist in protein transmembrane transport.

Mouse anti Human heat shock protein 70 antibody recognizes human HSP70 as a single band of ~70 kDa in multiple human cell line lysates.

Western Blotting

Anti heat shock protein 70 antibody detects a band of approximately 70 kDa in HeLa cell lysates.

References

1. Dalli, J. *et al.* (2013) Heterogeneity in neutrophil microparticles reveals distinct proteome and functional properties. [Mol Cell Proteomics. 12 \(8\): 2205-19.](#)

Further Reading

1. Tavaria, M. *et al.* (1996) A hitchhiker's guide to the human Hsp70 family. [Cell Stress Chaperones. 1 \(1\): 23-8.](#)

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/VMA00042>
Antibody (10040)

Regulatory

For research purposes only.

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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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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