

## Datasheet: VMA00848

<b>Description:</b>	MOUSE ANTI HSPA2
<b>Specificity:</b>	HSPA2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB02/2E2
<b>Isotype:</b>	IgG2b
<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
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

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### 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

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-279 of human HSPA2
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P54652</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3306</a>    HSPA2    <a href="#">Related reagents</a></p>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti HSPA2 antibody</b> recognizes heat shock-related 70 kDa protein 2.</p> <p>HSPA2 is a molecular chaperone protein within the HSP70 family, and was originally identified as crucial for spermatogenesis. The protein is highly expressed in spermatocytes, and could be a useful selection marker for sperm with lowest levels of chromatin damage in assisted reproductive techniques for male factor infertility (<a href="#">Heidari et al. 2018</a>). In selected populations of somatic cells, non-spermatogenic functions of HSPA2 appear to include cytoprotection, and protection of cells against thermal stress, although its expression is not induced by heat shock (<a href="#">Scieglinska and Krawczyk, 2015</a>). A recent role for HSPA2 was also found in maintenance of skin homeostasis (<a href="#">Gogler-Piglowska et al. 2018</a>). Although there is a marked difference in expression pattern between some cancer types and corresponding noncancerous tissues, the role of HSPA2 in cancer is unclear (<a href="#">Scieglinska and Krawczyk, 2015</a>).</p>
<b>Western Blotting</b>	Mouse anti HSPA2 antibody detects a band of approximately 71 kDa in HeLa cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00848">https://www.bio-rad-antibodies.com/SDS/VMA00848</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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](https://bio-rad-antibodies.com/datasheets)

'M394630:220215'

**Printed on 13 Aug 2023**

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