

## Datasheet: VMA00041

<b>Description:</b>	MOUSE ANTI HEAT SHOCK PROTEIN 60
<b>Specificity:</b>	HEAT SHOCK PROTEIN 60
<b>Other names:</b>	HSP60
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	2E4
<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
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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein G ascites.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant human Hsp60, amino acids 1-573, purified from <i>E. coli</i>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P10809</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3329</a>    HSPD1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HSP60
<b>Specificity</b>	<p><b>Mouse anti Human heat shock protein 60 antibody</b> recognizes human heat shock protein 60 (HSP60), a member of the highly conserved chaperonin (HSP60) family, expressed abundantly in the mitochondrial matrix and is closely related to <i>E. coli</i> GroEL and plant Rubisco binding protein chaperones.</p> <p>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. HSP60 acts in conjunction with the co-chaperonin HSP10, and is important in the refolding and transportation of proteins from the cytoplasm into the mitochondrial matrix, and also involved in the replication of mitochondrial DNA (<a href="#">Höhfeld et al. 1994</a>).</p> <p>Mouse anti Human heat shock protein 60 recognizes human HSP60 as a single band of ~60 kDa by western blotting under reducing conditions in multiple cell line lysates.</p>
<b>Western Blotting</b>	Anti heat shock protein 60 antibody detects a band of approximately 60 kDa in Raji 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/VMA00041">https://www.bio-rad-antibodies.com/SDS/VMA00041</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 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](https://bio-rad-antibodies.com/datasheets)

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