

Datasheet: VMA00041

BATCH NUMBER 170125

Description:	MOUSE ANTI HEAT SHOCK PROTEIN 60
Specificity:	HEAT SHOCK PROTEIN 60
Other names:	HSP60
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	2E4
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
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	<p>Reacts with: Mouse, Rat</p> <p>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.</p>
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G ascites.
Buffer Solution	Phosphate buffered saline.
Preservative	0.09% Sodium Azide (NaN ₃).

Stabilisers

Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

Immunogen

Recombinant human Hsp60, amino acids 1-573, purified from *E. coli*

External Database Links

UniProt:

[P10809](#)

[Related reagents](#)

Entrez Gene:

[3329](#)

HSPD1

[Related reagents](#)

Synonyms

HSP60

Specificity

Mouse anti Human heat shock protein 60 antibody 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 *E. coli* GroEL and plant Rubisco binding protein chaperones.

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 ([Höhfeld et al. 1994](#)).

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.

Western Blotting

Anti heat shock protein 60 antibody detects a band of approximately 60 kDa in Raji 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/VMA00041>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M414790:221213'

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