

Datasheet: VMA00041

Description:	MOUSE ANTI HEAT SHOCK PROTEIN 60
Specificity:	HEAT SHOCK PROTEIN 60
Other names:	HSP60
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Recombinant human Hsp60, amino acids 1-573, purified from <i>E. coli</i>
External Database Links	<p>UniProt: P10809 Related reagents</p> <p>Entrez Gene: 3329 HSPD1 Related reagents</p>

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.

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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

Shelf Life As supplied, 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: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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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