

Datasheet: VMA00443

Description:	HUMAN ANTI HEAT SHOCK 70 kDa PROTEIN 5
Specificity:	HEAT SHOCK 70 kDa PROTEIN 5
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	HuCAL Fab bivalent
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

Reacts with: Mouse

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

A bivalent human recombinant Fab selected from the HuCAL phage display library, expressed in *E. coli*. This Fab fragment is bivalent by dimerization of the bacterial alkaline phosphatase fusion protein. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Human recombinant monoclonal antibody purified by StrepTactin affinity chromatography from *E. coli* extracts.

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Immunogen	Recombinant human heat Shock 70 kDa protein 5
External Database Links	<p>UniProt: P11021 Related reagents</p> <p>Entrez Gene: 3309 HSPA5 Related reagents</p>
Synonyms	GRP78
Specificity	<p>Human anti Human heat shock protein 5 antibody recognizes heat shock protein 5 also known as 78 kDa glucose-regulated protein, GRP78, endoplasmic reticulum luminal Ca(2+)-binding protein grp78, BIP, epididymis secretory sperm binding protein Li 89n, immunoglobulin heavy chain-binding protein and MIF2.</p> <p>Encoded by the HSPA5 gene and a member of the heat shock protein 70 (HSP70) family, heat shock protein 5 is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell (provided by RefSeq, Sep 2010).</p> <p>Human anti Human heat shock protein 5 antibody detects a band of 78 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
Western Blotting	Anti heat shock 70 kDa protein 5 detects a band of approximately 78 kDa in HepG2 cell lysates.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch.
Acknowledgements	<p>PrecisionAb is a trademark of Bio-Rad Laboratories.</p> <p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p>

Related Products

Recommended Secondary Antibodies

Goat Anti Human IgG F(ab')₂ (STAR126...) [HRP](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M398577:220623'

Printed on 23 Jun 2022