

Datasheet: VMA00848

BATCH NUMBER 100004563

Description:	MOUSE ANTI HSPA2
Specificity:	HSPA2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AB02/2E2
Isotype:	IgG2b
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, 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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-279 of human HSPA2

External Database Links

UniProt:
[P54652](#) [Related reagents](#)

Entrez Gene:
[3306](#) HSPA2 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti HSPA2 antibody** recognizes heat shock-related 70 kDa protein 2.

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 ([Heidari et al. 2018](#)). 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 ([Scieglinska and Krawczyk, 2015](#)). A recent role for HSPA2 was also found in maintenance of skin homeostasis ([Gogler-Pigłowska et al. 2018](#)). 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 ([Scieglinska and Krawczyk, 2015](#)).

Western Blotting Mouse anti HSPA2 antibody detects a band of approximately 71 kDa in HeLa 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/VMA00848>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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

'M375090:201216'

Printed on 13 Aug 2023

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