

Datasheet: MCA5765GA

Description:	HAMSTER ANTI HIGH MOBILITY GROUP PROTEIN B1
Specificity:	HIGH MOBILITY GROUP PROTEIN B1
Other names:	HMGB1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HMG1-5H6
Isotype:	IgG
Quantity:	0.1 mg

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
Flow Cytometry	▪			
Western Blotting	▪			
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Mouse

Species Cross Reactivity

Reacts with: Rat, Human, Hamster

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

Purified IgG prepared by affinity chromatography on Protein G

Buffer Solution

Phosphate buffered saline

Preservative

<0.1% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Recombinant mouse HMGB1.

External Database Links

UniProt:

[P63158](#) [Related reagents](#)
[P63159](#) [Related reagents](#)
[P09429](#) [Related reagents](#)

Entrez Gene:

[15289](#) Hmgb1 [Related reagents](#)
[25459](#) Hmgb1 [Related reagents](#)
[3146](#) HMGB1 [Related reagents](#)

Synonyms Hmg1, Hmg-1, HMG1

RRID AB_10844211

Specificity **Hamster anti High Mobility Group Protein B1 antibody, clone HMG1-5H6** recognizes high mobility group protein B1 (HMGB1), a ubiquitously expressed nuclear DNA binding protein belonging to the [alarmin](#) family.

HMGB1 is released by necrotic and inflammatory cells acting as a chemoattractant for immature dendritic cells (DCs) and promoting their maturation. DCs can also secrete HMGB1, leading to proliferation and Th1 polarization of interacting T cells.

HMGB1 is angiogenic and promotes cardiac stem cell growth and differentiation, it is a damage-associated molecular pattern molecule (DAMP) which co-precipitates with CD24.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Western Blotting MCA5765GA detects a band of approximately 30kDa in mouse NIH-3T3, rat NRK, hamster BHK, and HeLa cell lysates in the presence of 2ME, and bands of 30kDa (red) and 27kDa (ox) in the absence of 2ME.

Further Reading 1. Lange, S.S. *et al* (2009) HMGB1: the jack-of-all-trades protein is a master DNA repair mechanic. [Mol Carcinog. 48: 571-80.](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5765GA 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight@800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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