

Datasheet: VMA00873

Description:	MOUSE ANTI HIST2H2BE
Specificity:	HIST2H2BE
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	10G12-2C12
Isotype:	IgG1 Kappa
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	▪			1/500 - 1/2000

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
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Synthetic peptide corresponding to HIST2HBE amino acids 96 to 126

**External Database
Links**

UniProt:

[Q16778](#) [Related reagents](#)

Entrez Gene:

[8349](#) HIST2H2BE [Related reagents](#)

Synonyms

H2BFQ

Specificity

Mouse anti HIST2H2BE antibody recognizes histone H2B type 2-E, also known as H2BC21 and H2BFQ.

HIST2H2BE is a member of the histone family and a component of the nucleosome, responsible for the chromosomal fibre nucleosome structure ([Li et al. 2019](#)). The nucleosome creates a structure to the DNA and acts as a signaling hub for chromatin enzymes and post-translational modifications, as well as being able to assemble into higher-order structures allowing genome compaction ([McGinty and Tan 2015](#)). Histones are proteins with a positive charge, allowing them to associate with negatively-charged DNA and provide nucleosome structure. The nucleosome core particle is composed of two copies of the following histones: H2A, H2B, H3 and H4 with DNA wrapped around it ([Mariño-Ramírez et al. 2007](#)).

Mouse anti HIST2H2BE antibody recognizes epitope sequence corresponding to amino acids 103 to 109 of HIST2H2BE.

Western Blotting

Anti HIST2H2BE detects a band of approximately 15 kDa

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/VMA00873>
10040

Regulatory

For research purposes only

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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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