

Datasheet: VMA00949

Description:	MOUSE ANTI H1F0
Specificity:	H1F0
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD03/1C11
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

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 Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 1-194 of human H1F0
External Database Links	<p>UniProt: P07305 Related reagents</p> <p>Entrez Gene: 3005 H1F0 Related reagents</p>
Synonyms	H1FV
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti H1F0 antibody recognizes histone H1.0, also known as H1-0. H1 linker histones are DNA-binding proteins involved with formation of higher-order chromatin structures, with epigenetic functions in DNA replication and repair, genome stability, and regulation of gene expression (Di Liegro et al. 2018). H1F0 is one of the variants of H1 but unlike replication-dependent H1 variants, H1F0 is expressed in dividing and non-dividing cells (Torres et al. 2016). H1F0 also differs from other histone H1 family members in the chromosomal location and organizing of the gene encoding it. The H1F0 variant is generally a lot shorter than other H1 variants (Kowalski et al. 2016). H1F0 has been found to bind to large numbers of proteins, suggesting an important role in protein-protein interactions beyond its functions in chromatic structure (Kalashnikova et al. 2013). Given that cancer development can be affected by epigenetic factors, it is unsurprising that histones are involved. Reversible silencing of H1F0 has been found to affect rhea differentiation state of cancer cells (Torres et al. 2016).</p>
Western Blotting	Mouse anti H1F0 detects a band of approximately 30 kDa in A431 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/VMA00949 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

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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

'M394358:220215'

Printed on 13 Aug 2023

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