

Datasheet: VMA00949

BATCH NUMBER 100005795

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	<p>Reacts with: Mouse</p> <p>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.</p>
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 1-194 of human H1F0

External Database Links

UniProt:
[P07305](#) [Related reagents](#)

Entrez Gene:
[3005](#) H1F0 [Related reagents](#)

Synonyms H1FV

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

Specificity **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](#)).

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](#)

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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

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