

Datasheet: MCA6293

Description:	RABBIT ANTI HISTONE H3F3A (pSer10)
Specificity:	HISTONE H3F3A (pSer10)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM163
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
ELISA	▪			1 µg/ml - 0.2 µg/ml
Western Blotting	▪			2 µg/ml - 0.5 µg/ml
Immunocytochemistry	▪			2 µg/ml - 0.5 µg/ml

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	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react 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	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide

1% Bovine Serum Albumin
50% Glycerol

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen A phospho-peptide corresponding to H3F3A (pSer10)

External Database Links

UniProt:
[P84243](#) [Related reagents](#)

Entrez Gene:
[3021](#) H3F3B [Related reagents](#)

Synonyms H3.3A, H3.3B, H3F3

Specificity **Rabbit anti Human histone H3F3A (pSer10) antibody** recognizes histone H3.3, when phosphorylated at serine 10. In eukaryotic cells, histones are proteins which associate with nuclear DNA and help condense it into chromatin, playing important roles in gene regulation. H3F3A is a common non-centromeric variant of histone H3, and appears to play a role in both gene activation and silencing ([Shi et al. 2017](#)). Post-translational modifications of histones alter the interactions between histones and DNA, and between histones and other proteins, with dramatic consequences for DNA transcription and other biological events ([Sawika and Seiser 2012](#)). This protein can undergo massive phosphorylation at serine 10, among other sites, altering the function of histone H3 in a temporal and spatial way. This antibody detects H3F3A when phosphorylated at serine 10.

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA629310048>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M393084:211207'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)