

Datasheet: MCA6385

Description:	RAT ANTI HUMAN HISTONE H3.1 (pSer28)		
Specificity:	HISTONE H3.1 (pSer28)		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	5D10D4		
Isotype:	lgG2b		
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
Western Blotting	•			0.5 ug/ml - 2 ug/ml
Immunofluorescence				2 ug/ml - 10 ug/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:Broad 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 from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.035% Sodium Azide (NaN ₃) 30% Glycerol

Carrier Free	Yes				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	A peptide containing phosphorylated serine 28 of human histone H3.1				
External Database Links	UniProt: P68431 Related reagents Entrez Gene: 8968 HIST1H3F Related reagents				
Synonyms	H3FA, H3FB, H3FC, H3FD, H3FF, H3FH, H3FI, H3FJ, H3FK, H3FL				
Specificity	Rat anti Human histone H3.1 (pSer28) antibody, clone 5D10D4 recognizes Histone H3.1 when phosphorylated at serine 28.				
	Histone H3 is one of the four core histones that make up the nucleosome core particle. Nucleosomes are the smallest subunit of chromatin and are made up of 146 bp of DNA wrapped around an octamer comprised of pairs of the four core histones (H2A, H2B, H3, and H4) (Smith, 1991). In contrast to histone H3.3, incorporation of histone H3.1 and histone H3.2 into nucleosomes is replication dependent rather than occurring throughout the cell cycle (Tagami et al. 2004). Phosphorylation of histone H3.1 at serine 28 occurs in early mitosis and during premature chromosome condensation in cells that are in S-phase of the cell cycle (Zhong et al. 2003).				
	Rat anti Human histone H3.1 (pSer28) antibody, clone 5D10D4 does not react with histone H3.3 phosphorylated on serine 28. Wide species cross-reactivity is expected based on sequence.				
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. 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 #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA6385 10049				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR17...)

FITC

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR72...) HRP

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) <u>DyLight®650</u>, <u>DyLight®800</u>

Rabbit Anti Rat IgG (STAR21...) HRP

Rabbit Anti Rat IgG (STAR16...) <u>DyLight®800</u>

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL (MCA6006GA)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M394851:220218'

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