

Datasheet: MCA6385 BATCH NUMBER 160849

| 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 | 0.035% Sodium Azide (NaN ₃) |

| Stabilisers | 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...) DyLight®650, DyLight®800

Rabbit Anti Rat IgG (STAR21...) HRP

Rabbit Anti Rat IgG (STAR16...) DyLight®800

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

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