

## Datasheet: MCA6388

<b>Description:</b>	RAT ANTI HUMAN HISTONE H3 (pSer10)
<b>Specificity:</b>	HISTONE H3 (pSer10)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6G8B7
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			0.2 ug/ml - 2 ug/ml
Immunofluorescence	▪			0.5 ug/ml - 2 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<sub>3</sub>)

30% Glycerol

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**Carrier Free**

Yes

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**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml

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**Immunogen**

A peptide corresponding to amino acids 1-19 including phosphorylated serine 10 of human histone H3

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**External Database Links****UniProt:**

[P68431](#)

[Related reagents](#)

**Entrez Gene:**

[8968](#)

HIST1H3F

[Related reagents](#)

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**Synonyms**

H3FA, H3FB, H3FC, H3FD, H3FF, H3FH, H3FI, H3FJ, H3FK, H3FL

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**Specificity**

**Rat anti Human histone H3 (pSer10) antibody, clone 6G8B7** recognizes histone H3 when phosphorylated at serine 10.

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](#)). Histones may be modified in several ways including acetylation, methylation, phosphorylation, ubiquitination, glycosylation, and SUMOylation ([Koch et al. 2007](#)). Phosphorylation of histone H3 has been shown to occur during the early stages of mitosis when chromosomes begin to condense, and during premature condensing of chromosomes during S-phase of the cell cycle. Phosphorylation of histone H3 at serine 10 has been linked to both transcription and cell division ([Hans and Dimitrov, 2001](#)).

Broad species cross-reactivity is expected from Rat anti Human histone H3 (pSer10) antibody based on sequence.

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6388>  
10049

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>

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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](https://bio-rad-antibodies.com/datasheets)

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