

## Datasheet: MCA6294

<b>Description:</b>	RABBIT ANTI HISTONE H3F3A (pThr3)
<b>Specificity:</b>	HISTONE H3F3A (pThr3)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM159
<b>Isotype:</b>	IgG
<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
Immunohistology - Paraffin	▪			2 µg/ml - 0.5 µg/ml
ELISA	▪			1 µg/ml - 0.2 µg/ml
Western Blotting	▪			1 µg/ml - 0.1 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

<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	A phospho-peptide corresponding to H3F3A (pThr3)
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P84243</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">3021</a> H3F3B <a href="#">Related reagents</a>
<b>Synonyms</b>	H3.3A, H3.3B, H3F3
<b>Specificity</b>	<b>Rabbit anti Human histone H3F3A (pThr3) antibody</b> recognizes histone H3.3, when phosphorylated at threonine 3. 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 ( <a href="#">Shi et al. 2017</a> ). 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 ( <a href="#">Sawika and Seiser 2012</a> ). This protein can undergo massive phosphorylation at threonine 3, among other sites, altering the function of histone H3 in a temporal and spatial way. This antibody detects H3F3A when phosphorylated at threonine 3.
<b>Storage</b>	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
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: 10048: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Sheep Anti Rabbit IgG (STAR36...)

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

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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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