

Datasheet: MCA6292

Description:	RABBIT ANTI HISTONE H2A/H4 (pSer1)
Specificity:	HISTONE H2A/H4 (pSer1)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM216
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 - 1 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

Protein A affinity purified from an 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
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Immunogen	A phospho-peptide corresponding to Phospho-Histone H2A (pSer1)
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External Database Links	UniProt: P16104 Related reagents P62805 Related reagents Entrez Gene: 3014 H2AFX Related reagents 554313 HIST2H4B Related reagents
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Synonyms	H2AX, H4/A, H4/B, H4/C, H4/D, H4/E, H4/G, H4/H, H4/I, H4/J, H4/K, H4/M, H4/N, H4/O, H4F2, H4FA, H4FB, H4FC, H4FD, H4FE, H4FG, H4FH, H4FI, H4FJ, H4FK, H4FM, H4FN, H4FO, HIST2H4
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Specificity	Rabbit anti Histone H2A/H4 (pSer1) antibody recognizes Histone H2AX, and Histone H4 when phosphorylated at serine 1. In eukaryotic cells, histones are proteins which associate with nuclear DNA and help condense it into chromatin, playing important roles in gene regulation. Histone H2AX is a member of the histone 2A (H2A) family, which constitutes 2 to 25% of mammalian histone H2A (Dickey et al. 2009). H2AX involved with nucleosomal organization of chromatin. H2AX can act as a tumor suppressor that plays key roles in repair of DNA double-strand breaks and genome stability during mitotic and meiotic division (Weyemi et al. 2016). The role of H2AX in chromatin remodeling also extends to stem cell development, and to maintenance of cellular senescence (Turinetto and Giachino 2015). Like histone H2A, histone 4 (H4) is a core histone involved with condensing chromatin (Dai et al. 2008). Histone H4 is phosphorylated at serine 1 during DNA damage, and is localized to the double-strand break (DSB). This phosphorylation is mediated by CK2, and appears to function in DSB repair (Cheung et al. 2005).
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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.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10048 available at: https://www.bio-rad-antibodies.com/SDS/MCA6292 10048
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Regulatory	For research purposes only
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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](#)

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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
'M393035:211207'

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