

Datasheet: MCA6379

BATCH NUMBER 160853

Description:	RAT ANTI HUMAN HISTONE H3 (Ac9)
Specificity:	HISTONE H3 (Ac9)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2G1F9
Isotype:	IgG2a
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	▪			1 ug/ml - 2 ug/ml
Chromatin Immunoprecipitation	▪			5 ug per ChIP - 10 ug per ChIP

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 acetyl-lysine 9 of human histone H3
External Database Links	<p>UniProt: P68431 Related reagents</p> <p>Entrez Gene: 8968 HIST1H3F Related reagents</p>
Synonyms	H3FA, H3FB, H3FC, H3FD, H3FF, H3FH, H3FI, H3FJ, H3FK, H3FL
Specificity	<p>Rat anti Human histone H3 (Ac9) antibody, clone 2G1F9 recognizes histone H3 when acetylated at lysine 9.</p> <p>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). Lysine residues within the N-terminal tail protruding from the histone core of the nucleosome are acetylated and deacetylated as part of gene regulation. Hyperacetylation of histone tails makes chromatin more accessible to DNA-binding proteins by weakening histone-DNA and nucleosome-nucleosome interactions (Kuo and Allis, 1998). Acetylation of histone H3 at lysine 4 usually leads to the transcriptional activation of genes (Hazzlin and Mahadevan, 2005).</p> <p>Wide species cross-reactivity is expected from Rat anti Human histone H3 (Ac9) antibody based on sequence.</p>
Storage	<p>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.</p> <p>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.</p>
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/MCA6379 10049

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
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

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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

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