

Datasheet: AHP3061

Description:	RABBIT ANTI DI-METHYL-HISTONE H3 (Lys4)
Specificity:	DI-METHYL-HISTONE H3 (Lys4)
Format:	Purified
Product Type:	Polyclonal Antibody
lsotype:	Polyclonal 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 <u>www.bio-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Western Blotting	•			0.5 μg/ml - 2 μg/ml		
	Immunofluorescence	•			1 μg/ml - 2 μg/ml		
	Immunoblotting	-			1 µg/ml		
	Chromatin Immunoprecipitation	•			10 µg per ChIP		
	Where this product has r	not been te	ested for	use in a particular tech	inique this does not		
	necessarily exclude its u	ise in such	procedu	res. Suggested workin	g dilutions are given as		
	a guide only. It is recommended that the user titrates the product for use in their own						
	system using appropriate	e negative	/positive o	controls.			
Target Species	Human						
Species Cross	Reacts with: Mouse						
Reactivity	Based on sequence simi	ilarity, is ex	cpected to	o react with:Broad			
	N.B. Antibody reactivity	and workir	ng conditio	ons may vary between	i 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						
Antiserum Preparatic	n Antiserum to di-methyl-h with highly purified antig chromatography on Prot	en. Purifie	,	•			
Buffer Solution	Phosphate buffered salir	ne					

Preservative Stabilisers	0.035% Sodium Azide (NaN ₃) 30% Glycerol					
Carrier Free	Yes					
Immunogen	A peptide including di-methylated lysine 4 of histone H3					
External Database Links	UniProt: <u>P68431</u> <u>Related reagents</u>					
	Entrez Gene: <u>8968</u> HIST1H3F <u>Related reagents</u>					
Synonyms	H3FA, H3FB, H3FC, H3FD, H3FF, H3FH, H3FI, H3FJ, H3FK, H3FL					
Specificity	Rabbit anti Human di-methyl-histone H3 (Lys4) antibody recognizes histone H3 when di-methylated at lysine 4.					
	Histone H3 is one of the four core histones that make up the nucleosome core particle. 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) (<u>Smith, 1991</u>). Histones can be mono-, di- or tri-methylated by histone methyltransferases. Depending on which amino acid residues are methylated, methylation of histones may increase or decrease the transcription of genes. Methylation events that weaken the binding between histone tails and DNA lead to increased transcription because they make the DNA more accessible to transcription factor proteins and RNA polymerase. Methylation of histones is therefore crucial for the regulation of gene expression (<u>Gupta <i>et al.</i> 2010</u>). Di-methylation of histone H3 at lysine 4 usually leads to transcriptional activation.					
	Wide species cross-reactivity is expected from Rabbit anti Human di-methyl-histone H3 (Lys4) antibody 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/AHP3061 10049					

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRPGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRP

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	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M394887:220218'

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