

Datasheet: AHP3063

Description:	RABBIT ANTI MONO-METHYL-HISTONE H3 (Lys79)			
Specificity:	MONO-METHYL-HISTONE H3 (Lys79)			
Format:	Purified			
Product Type:	Polyclonal Antibody			
Isotype:	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-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Western Blotting	•			1 μg/ml - 2 μg/ml	
	Chromatin Immunoprecipitation	•			10 µg per ChIP	
	Where this product has i	not been te	ested for u	ise in a particular tech	nnique this does not	
	necessarily exclude its u	ise in such	procedur	es. Suggested workin	ng dilutions are given as	
	a guide only. It is recomr	mended th	at the use	r titrates the product f	for use in their own	
	system using appropriate	e negative,	/positive c	ontrols.		
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					
Antiserum Preparatio	n Antiserum to mono-meth rabbits with highly purifie chromatography on Prot	ed antigen.			eated immunization of m whole serum by affinity	
Buffer Solution	Phosphate buffered salir	ıe				
Preservative Stabilisers	0.035% Sodium Azide (N 30% Glycerol	NaN ₃)				

Carrier Free	Yes				
Immunogen	A peptide including mono-methylated lysine 79 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 mono-methyl-histone H3 (Lys79) antibody recognizes his					
opeoneny	when mono-methylated at lysine 79.				
	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) (Smith, 1991). 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 (Gupta <i>et al.</i> 2010). Lysine 79 of histone H3 may be mono-, di- or tri-methylated by the methylase DOT1. Methylation of lysine 79 of histone H3 acts as a marker of inactive chromatin regions that is essential for silencing of transcription of proteins such as SIR3 (Ng <i>et al.</i> 2003).				
	Wide species cross-reactivity is expected from Rabbit anti Human mono-methyl-histone H3 (Lys79) 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/AHP3063 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

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.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 'M394889:220218'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint