

Datasheet: 4974-7808 **BATCH NUMBER 151715** 

Description:	MOUSE ANTI HUMAN HISTONE H1
Specificity:	HISTONE H1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AE-4
Isotype:	lgG2a
Quantity:	0.2 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen (1)	•			
Immunohistology - Paraffin	•			
ELISA			•	
Immunoprecipitation	•			
Western Blotting	•			1/100
Immunofluorescence				

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 the appropriate negative/positive controls.

#### (1) Acetone or PFA fixation is recommended

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> )

Carrier Free	Yes	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml	
Immunogen	Nuclei from myeloid leukamia biopsy cells.	
RRID	AB_2114841	
Specificity	Mouse anti Human Histone H1 antibody, clone AE-4 recognizes histor	ne H1.
	The histone proteins serve as a structural scaffold for the organization of chromatin. In eukaryotic cells there are 4 core histone proteins, H2A, H2I assemble to form an octamer round which the DNA is wrapped in a sequing manner. The resulting complex is known as a nucleosome and is the base chromatin. Histone H1 acts as a linker and binds to each nucleosome, are links these nucleosomes together resulting in the 30 nm chromatin fiber.  In blots of rat brain homogenate a duplet is observed at ~27-29 kDa consequence.	B, H3 and H4 that tence dependant sic subunit of and by self affinity, sistent with
Histology Positive Control Tissue	Tonsil	
References	<ol> <li>Swindle, C.S. &amp; Engler, J.A. (1998) Association of the human papillom protein with histone H1. J Virol. 72 (3): 1994-2001.</li> <li>Hole, P.S. et al. (2010) Ras-induced reactive oxygen species promote independent proliferation in human CD34+ hematopoietic progenitor cells 1238-46.</li> <li>Thorogate, R. et al. (2008) A novel fluorescence-based method in fore the detection of blood in situ. Forensic Sci Int Genet. 2 (4): 363-71.</li> <li>Morgan, R.G. et al. (2013) γ-Catenin is overexpressed in acute myeloi promotes the stabilization and nuclear localization of β-catenin. Leukemia.</li> <li>Alanazi, B. et al. (2019) Integrated nuclear proteomics and transcriptor S100A4 as a therapeutic target in acute myeloid leukemia. Leukemia. Ocof print].</li> </ol>	growth factor- s. Blood. 115 (6): ensic science for d leukemia and a. 27 (2): 336-43. mics identifies
Further Reading	1. Wang, X. <i>et al.</i> (2004) Histone H1-like protein participates in endothelia activation of the von Willebrand factor promoter. <u>Blood. 104 (6): 1725-32</u>	•
Storage	Store at +4°C or at -20°C if preferred.  Storage in frost-free freezers is not recommended.  This product should be stored undiluted. Avoid repeated freezing and that denature the antibody. Should this product contain a precipitate we recommicrocentrifugation before use.	•
Guarantee	12 months from date of despatch	
Health And Safety	Material Safety Datasheet documentation #10040 available at:	

Information https://www.bio-rad-antibodies.com/SDS/4974-7808

10040

**Regulatory** For research purposes only

# Related Products

# **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) RPE

Rabbit Anti Mouse IgG (STAR13...) HRP

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) <u>FITC</u>

Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) 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

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

'M363182:200528'

#### Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint