

Datasheet: MCA1946 BATCH NUMBER 155611

Description:	RAT ANTI M31/HP1
Specificity:	M31
Other names:	HETEROCHROMATIN PROTEIN 1 HOMOLOG BETA
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MAC353
Isotype:	lgG2b
Quantity:	2 ml

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
Flow Cytometry				
Immunohistology - Frozen	•			Neat - 1/50
Immunohistology - Paraffin				
ELISA	•			
Immunoprecipitation				
Western Blotting	•			
Immunofluorescence	•			
Chromatin Immunoprecipitation	•			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Species Cross	Reacts with: Human
Reactivity	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	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Immunogen	71 amino acid fusion protein corresponding to the C-terminal region of M31
External Database Links	UniProt: P83917 Related reagents Entrez Gene: 12412 Cbx1 Related reagents
Synonyms	Cbx
RRID	AB_2259687
Specificity	Rat anti Mouse M31 antibody, clone MAC353 recognises the M31 molecule in mouse and the homologous Chromobox protein homolog 1 or HP1Hsbeta molecule in man. Rat anti Mouse M31 antibody, clone MAC353 has been reported for use in western blotting and recognises a ~26 kDa protein in murine and human nuclear extracts (Wreggett et al.

References

1994).

- 1. Wreggett, K.A. *et al.* (1994) A mammalian homologue of *Drosophila* heterochromatin protein 1 (HP1) is a component of constitutive heterochromatin. <u>Cytogenet Cell Genet. 66</u> (2): 99-103.
- 2. Sabbattini, P. *et al.* (2007) A novel role for the Aurora B kinase in epigenetic marking of silent chromatin in differentiated postmitotic cells. <u>EMBO J. 26 (22): 4657-69.</u>
- 3. Epsztejn-Litman, S. *et al.* (2008) *De novo* DNA methylation promoted by G9a prevents reprogramming of embryonically silenced genes. <u>Nat Struct Mol Biol. 15: 1176-83.</u>
- 4. Matsui, T. *et al.* (2010) Proviral silencing in embryonic stem cells requires the histone methyltransferase ESET. <u>Nature</u>. 464: 927-31.
- 5. Frohnert, C. *et al.* (2011) SPAG4L/SPAG4L-2 are testis-specific SUN domain proteins restricted to the apical nuclear envelope of round spermatids facing the acrosome. <u>Mol Hum Reprod.</u> 17: 207-18.
- 6. Baxter, J. et al. (2004) Histone hypomethylation is an indicator of epigenetic plasticity in quiescent lymphocytes. <u>EMBO J. 23 (22): 4462-72.</u>
- 7. McDowell, T.L. *et al.* (1999) Localization of a putative transcriptional regulator (ATRX) at pericentromeric heterochromatin and the short arms of acrocentric chromosomes. <u>Proc</u> Natl Acad Sci U S A. 96: 13983-8.
- 8. Sabbattini, P. *et al.* (2007) A novel role for the Aurora B kinase in epigenetic marking of silent chromatin in differentiated postmitotic cells. <u>EMBO J. 26 (22): 4657-69.</u>
- 9. Groves, I.J. *et al.* (2009) Lytic infection of permissive cells with human cytomegalovirus is regulated by an intrinsic 'pre-immediate-early' repression of viral gene expression mediated by histone post-translational modification. J Gen Virol. 90: 2364-74.
- 10. Groves, I.J. and Sinclair, J.H. (2007) Knockdown of hDaxx in normally non-permissive undifferentiated cells does not permit human cytomegalovirus immediate-early gene

expression. J Gen Virol. 88: 2935-40.

11. Abe, K. *et al.* (2011) Loss of heterochromatin protein 1 gamma reduces the number of primordial germ cells via impaired cell cycle progression in mice. <u>Biol Reprod. 85 (5):</u>

1013-24.

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 thawing as this may

denature the antibody. 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 #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1946

10041

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...) <u>DyLight®800</u>

Rabbit Anti Rat IgG (STAR17...)

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR21...)

HRP

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®650, DyLight®800

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR72...) HRP

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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 'M379529:210325'

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