

Datasheet: VMA00637 **BATCH NUMBER 170517**

Description:	MOUSE ANTI SMC1A	
Specificity:	SMC1A	
Format:	Purified	
Product Type:	PrecisionAb Monoclonal	
Clone:	AB01/4H4	
Isotype:	lgG1	
Quantity:	100 μΙ	

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.biorad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	•			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click here to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human	
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between reactivity is derived from testing within our laboratories, peer-repersonal communications from the originators. Please refer to further information.	eviewed publications or
Product Form	Purified IgG - liquid	
Preparation	Mouse monoclonal antibody purified by affinity chromatograpy culture supernatant	on Protein G from tissue
Buffer Solution	Phosphate buffered saline	

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)				
Immunogen	E. coli-derived recombinant human SMC1A (aa 837-1233)				
External Database Links	UniProt: Q14683 Related reagents Entrez Gene: 8243 SMC1A Related reagents				
Synonyms	DXS423E, KIAA0178, SB1.8, SMC1, SMC1L1				
Specificity	Mouse anti Human SMC1A antibody recognizes structural maintenance of chromosomes protein 1A, also known as SMC protein 1A, SMC-1-alpha or segregation of mitotic chromosomes 1.				
	Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1B or the protein encoded by SMC1A. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role for this protein in DNA repair. SMC1A, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. Mutations in SMC1A result in Cornelia de Lange syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms (provided by RefSeq, Jul 2013). Mouse anti Human SMC1A antibody detects a band of 155 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.				
Western Blotting	Mouse anti SMC1A antibody detects a band of approximately 155 kDa in HEK293 cell lysates				
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles				
Guarantee	12 months from date of despatch				
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.				
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00637 Antibody (10040)				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) 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 'M370341:200529'

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