

Datasheet: VMA00249 BATCH NUMBER 151111

Description:	MOUSE ANTI SURVIVAL MOTOR NEURON PROTEIN
Specificity:	SURVIVAL MOTOR NEURON PROTEIN
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	lgG1
Quantity:	100 µl

Product Details

Applications	This product has been reported to work in the following applications. This information is							
	derived from	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 Blottir	ıg	•			1/1000		
	The Precisio criteria withi how we valic use in a partio Further optim	nAb label n Bio-Rad' late our Pr cular techni ization may	is reserve s ongoin ecisionA que this d / be requir	ed for an g antiboo b range. loes not n red deper	tibodies that meet the dy validation program Where this product ha necessarily exclude its ndent on sample type.	ne defined performance mme. Click <u>here</u> to learn as not been tested for a use in such procedures.		
Target Species	Human							
Product Form	Purified IgG -	liquid						
Preparation	Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites							
Buffer Solution	Phosphate buffered saline							
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)							
Immunogen	Purified recor	nbinant fraç	gment of h	uman SN	MN1 expressed in <i>E.</i> c	coli		
External Database Links	UniProt: <u>Q16637</u>	Related I	reagents					

	Entrez Gene:					
	6607 SMN2 Related reagents					
Synonyms	SMN, SMNC, SMNT					
Specificity	Mouse anti Human survival motor neuron protein antibody recognizes survival motor neuron 1 protein, also known as component of gems 1, gemin-1 and tudor domain containing 16A.					
	SMN1 is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated region contains at least four genes and repetitive elements which make it prone to rearrangements and deletions. The repetitiveness and complexity of the sequence have also caused difficulty in determining the organization of this genomic region. The telomeric and centromeric copies of SMN1 gene are nearly identical and encode the same protein. However, mutations in SMN1, the telomeric copy, are associated with spinal muscular atrophy; mutations in the centromeric copy do not lead to disease. The centromeric copy may be a modifier of disease caused by mutation in the telomeric copy. The critical sequence difference between the two genes is a single nucleotide in exon 7, which is thought to be an exon splice enhancer. Note that the nine exons of both the telomeric and centromeric copies are designated historically as exon 1, 2a, 2b, and 3-8. It is thought that gene conversion events may involve the two genes, leading to varying copy numbers of each gene. The protein encoded by SMN1 localizes to both the cytoplasm and the nucleus. Within the nucleus, the protein localizes to subnuclear bodies called gems which are found near coiled bodies containing high concentrations of small ribonucleoproteins (snRNPs). This protein forms heteromeric complexes with proteins such as SIP1 and GEMIN4, and also interacts with several proteins known to be involved in the biogenesis of snRNPs, such as hnRNP U protein and the small nucleolar RNA binding protein. Two transcript variants encoding distinct isoforms have been described (provided by RefSeq, Sep 2008).					
	Mouse anti Human survival motor neuron protein antibody detects a band of 39 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.					
Western Blotting	Anti survival motor neuron protein detects a band of approximately 39 kDa in MCF7 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/VMA00249 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 Worldwid	le	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-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 'M370027:200529'

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