

Datasheet: MCA2887

Description:	MOUSE ANTI SOS1
Specificity:	SOS1
Other names:	SON OF SEVENLESS HOMOLOG 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SOS-01
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been re	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	orotocol ı	ecommer	ndations, please visit <u>w</u>	ww.bio-		
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry						
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin			-			
	ELISA	-					
	Immunoprecipitation			-			
	Western Blotting	-			1.0ug/ml		
	Immunofluorescence						
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its us	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 appropriate negative/positive controls.						
Target Species	Human						
Species Cross	Reacts with: Mouse						
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	Purified IgG - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture						

	supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	Synthetic peptide corresponding to amino acids THPSMHRDGPPLLENAHSS of human SOS1.		
External Database Links	UniProt: Q07889 Related reagents Entrez Gene: <u>6654</u> SOS1 <u>Related reagents</u>		
RRID	AB_2192440		
Specificity	Mouse anti Human SOS1 antibody, clone SOS-01 recognizes SOS1 (son of sevenless homolog 1), a ubiquitously expressed 1333 amino acid ~150 kDa intracellular protein and bifunctional guanine nucleotide exchange factor (GEF), which plays a role in growth and differentiation signalling pathways and in actin reorganization, by acting as a regulator of Ras and Rac/Rho GTPases. Mutations in the SOS1 gene are responsible for the rare oral overgrowth condition known as gingival fibromatosis 1 (Hart <i>et al.</i> 2002), and also the cause of the relatively common autosomal dominant disorder Noonan syndrome type 4 (NS4), characterized by short stature, congenital heart malformation, bleeding diathesis and distinctive facial features		
Western Blotting	(<u>Hanna <i>et al.</i> 2009</u>). MCA2887 detects a band of approximately 150kDa in K562 and RAJI human cell lysates under reducing conditions.		
Further Reading	1. Scita, G. <i>et al.</i> (2000) Signaling from Ras to Rac and beyond: not just a matter of GEFs. <u>EMBO J. 19 (11): 2393-8.</u>		
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.		
Guarantee	12 months from date of despatch		

Health And Safety	Material Safety Datasheet documentation #10040 available			
Information	https://www.bio-rad-antibodies.com/SDS/MCA2887			
	10040			

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>
Goat Anti Mouse IgG (STAR76)	RPE
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>
	DyLight®650, DyLight®680, DyLight®800,
	FITC, HRP
Decommonded Negative Controls	

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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-	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 'M410523:221028'

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