

Datasheet: MCA2887

Description:	MOUSE ANTI SOS1
Specificity:	SOS1
Other names:	SON OF SEVENLESS HOMOLOG 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SOS-01
Isotype:	IgG1
Quantity:	0.1 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 www.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 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 Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% 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:
[6654](#) SOS1 [Related reagents](#)

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 et al. 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 ([Hanna et al. 2009](#)).

Western Blotting

MCA2887 detects a band of approximately 150kDa in K562 and RAJI human cell lysates under reducing conditions.

Further Reading

1. Scita, G. *et al.* (2000) Signaling from Ras to Rac and beyond: not just a matter of GEFs. [EMBO J. 19 \(11\): 2393-8.](#)

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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