

Mouse anti-Mouse SOS1 Monoclonal Antibody | anti-SOS1 antibody

MOUSE ANTI SOS1

CATALOG # AAA49735	HOST Mouse	REACTIVITY Mouse	APPLICATIONS Western Blot, Immunofluorescence, ELISA
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PRODUCT SYNONYMS

SOS1; Monoclonal Antibody; MOUSE ANTI SOS1; anti-SOS1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SOS-01
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	1333
Applicable Applications for anti-SOS1 antibody	WB (Western Blot), IF (Immunofluorescence), ELISA
Perservative Stabilisers	0.09% Sodium Azide (NaN3) Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree 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.

IMAGES



Application Data

Immunofluorescence analysis of human SOS1 expression (red) on transformed murine fibroblasts using Mouse anti Human SOS1. Actin is stained green and nuclei (DAPI) blue



Application Data

Immunofluorescence analysis of human SOS1 expression (green) on human fibroblasts using Mouse anti Human SOS1, cells are counterstained for actin (red) and DNA using DAPI (blue)



Application Data

Western blotting analysis of human SOS1 expression on K562 (lane 1) and Raji (lane 2) cell lysates using Mouse anti Human SOS1 antibody, detection is by chemiluminescence

ADDITIONAL INFORMATION

Related Product Information for anti-SOS1 antibody	Mouse anti Human SOS1 antibody, clone SOS-1 recognizes SOS1 (son of sevenless homolog 1), a ubiquitously expressed 1333 amino acid ~150kDa 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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15529996
NCBI GeneID	6654
NCBI Accession #	NP_005624.2
NCBI GenBank Nucleotide #	NM_005633.3
UniProt Accession #	Q07889; A8K2G3; B4DXG2
Molecular Weight	36,073 Da
NCBI Official Full Name	son of sevenless homolog 1
NCBI Official Synonym Full Names	son of sevenless homolog 1 (Drosophila)
NCBI Official Symbol	SOS1
NCBI Official Synonym Symbols	GF1; HGF; NS4; GGF1; GINGF
NCBI Protein Information	son of sevenless homolog 1; SOS-1; gingival fibromatosis, hereditary, 1; guanine nucleotide exchange factor
UniProt Protein Name	Son of sevenless homolog 1
UniProt Gene Name	SOS1
UniProt Synonym Gene Names	SOS-1
UniProt Entry Name	SOS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/sos1-antibody-clone-sos-01-western-blot-immunofluorescence-elisa/49735>