



# Anti-SOS1 (aa 313-420) polyclonal antibody (DPAB-DC2937)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a protein that is a guanine nucleotide exchange factor for RAS proteins, membrane proteins that bind guanine nucleotides and participate in signal transduction pathways. GTP binding activates and GTP hydrolysis inactivates RAS proteins. The product of this gene may regulate RAS proteins by facilitating the exchange of GTP for GDP. Mutations in this gene are associated with gingival fibromatosis 1 and Noonan syndrome type 4.
<b>Immunogen</b>	SOS1 (NP_005624, 313 a.a. ~ 420 a.a) partial recombinant protein with GST tag. The sequence is SQLSKPGAALYLQSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEEKSEDQEDKEC LKQAITALLNVQSGMEKICKSLAKRRLSESACRFYSQQMKGKQLAIK
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SOS1 son of sevenless homolog 1 (Drosophila) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SOS1
<b>Synonyms</b>	SOS1; son of sevenless homolog 1 (Drosophila); GF1; HGF; NS4; GGF1; GINGF; son of sevenless homolog 1; SOS-1; guanine nucleotide exchange factor; gingival fibromatosis, hereditary, 1;
<b>Entrez Gene ID</b>	<a href="#">6654</a>
<b>Protein Refseq</b>	<a href="#">NP_005624</a>
<b>UniProt ID</b>	<a href="#">Q07889</a>
<b>Chromosome Location</b>	2p21
<b>Pathway</b>	Activation of Rac; Acute myeloid leukemia; Alcoholism; Antigen activates B Cell Receptor (BCR) leading to generation of second messengers
<b>Function</b>	DNA binding; Ras guanyl-nucleotide exchange factor activity; Rho GTPase activator activity; Rho guanyl-nucleotide exchange factor activity