



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

Antigen Description	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.
Immunogen	SOS1 (NP_005624, 313 a.a. ~ 420 a.a) partial recombinant protein with GST tag. The sequence is SQLSKPGAAALYLQSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEEKSEDQEDKEC LKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQQMKGKQLAIK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	SOS1 son of sevenless homolog 1 (Drosophila) [Homo sapiens (human)]
Official Symbol	SOS1
Synonyms	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;
Entrez Gene ID	6654
Protein Refseq	NP_005624
UniProt ID	Q07889
Chromosome Location	2p21
Pathway	Activation of Rac; Acute myeloid leukemia; Alcoholism; Antigen activates B Cell Receptor (BCR) leading to generation of second messengers
Function	DNA binding; Ras guanyl-nucleotide exchange factor activity; Rho GTPase activator activity; Rho guanyl-nucleotide exchange factor activity
