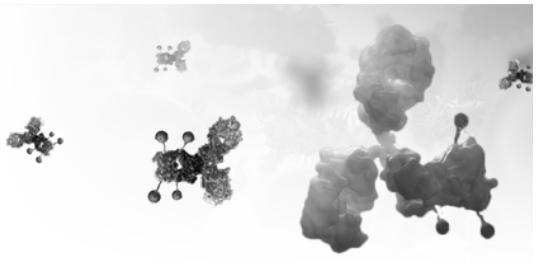

Human SOS1 peptide (DAG-P1178)

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. [provided by RefSeq, Jul 2008]
Specificity	Expressed in gingival tissues.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 DH (DBL-homology) domain.Contains 1 N-terminal Ras-GEF domain.Contains 1 PH domain.Contains 1 Ras-GEF domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Entrez Gene ID	6654
mRNA Refseq	NM_005633.3
Protein Refseq	NP_005624.2
UniProt ID	Q07889
Chromosome Location	2p21
Pathway	Activation of Rac, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell recep
Function	DNA binding; Ras guanyl-nucleotide exchange factor activity; Ras guanyl-nucleotide exchange factor activity; Rho GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; SH3 domain binding; protein binding; protein heterodimerization act

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221