

Recombinant Human SOS1 293 Cell Lysate

Cat. No. SOS1-1568HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for son of sevenless homolog 1 (Drosophila) (SOS1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [SOS1 son of sevenless homolog 1 \(Drosophila\) \[Homo sapiens \]](#)

Official Symbol SOS1

Synonyms SOS1; son of sevenless homolog 1 (Drosophila); GINGF, gingival fibromatosis, hereditary, 1; son of sevenless homolog 1; GF1; HGF; SOS-1; guanine nucleotide exchange factor; gingival fibromatosis, hereditary, 1; NS4; GGF1; GINGF;

Gene ID [6654](#)

mRNA Refseq [NM_005633](#)

Protein Refseq [NP_005624](#)

MIM [182530](#)

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; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; Axon guidance,

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organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;

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; protein binding;

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