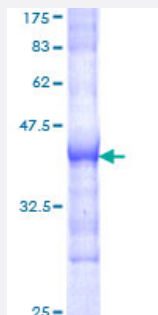


SOS1 (Human) Recombinant Protein (Q01)

Catalog # H00006654-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SOS1 partial ORF (NP_005624, 313 a.a. - 420 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SQLSKPGAALYLSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEEKSEDQEDKECLKQAIT ALLNVQSGMEKICSKSLAKRRLSESACRFYSQQMKGKQLAIK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.62
Interspecies Antigen Sequence	Mouse (99); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SOS1

Entrez GeneID [6654](#)

GeneBank Accession# [NM_005633](#)

Protein Accession# [NP_005624](#)

Gene Name SOS1

Gene Alias GF1, GGF1, GINGF, HGF, NS4

Gene Description son of sevenless homolog 1 (Drosophila)

Omim ID [135300](#) [182530](#) [610733](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations OTTHUMP00000128306|gingival fibromatosis, hereditary, 1|guanine nucleotide exchange factor|son of sevenless homolog 1

Pathway

- [Acute myeloid leukemia](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)

- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Dorso-ventral axis formation](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [MAPK signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

Disease

- [Abnormalities](#)
- [Angina Pectoris](#)
- [Articulation Disorders](#)

- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Coronary Vasospasm](#)
- [Craniofacial Abnormalities](#)
- [Developmental Disabilities](#)
- [Diabetes Mellitus](#)
- [Dyslexia](#)
- [Ectodermal Dysplasia](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hearing](#)
- [Hearing Loss](#)
- [Heart Defects](#)
- [Language Disorders](#)
- [LEOPARD Syndrome](#)
- [Leukemia](#)
- [Memory](#)
- [Motor Skills](#)
- [Motor Skills Disorders](#)
- [Neuropsychological Tests](#)
- [Noonan Syndrome](#)
- [Skin Abnormalities](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)