

Recombinant Human SH2D1A, His-tagged

Cat. No. SH2D1A-31018TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SH2D1A/SAP , with N terminal His tag, 148aa, 16.3kDa inclusive of tag.
Species	Human
Source	E.coli
ProteinLength	128 amino acids
Description	This gene encodes a protein that plays a major role in the bidirectional stimulation of T and B cells. This protein contains an SH2 domain and a short tail. It associates with the signaling lymphocyte-activation molecule, thereby acting as an inhibitor of this transmembrane protein by blocking the recruitment of the SH2-domain-containing signal-transduction molecule SHP-2 to its docking site. This protein can also bind to other related surface molecules that are expressed on activated T, B and NK cells, thereby modifying signal transduction pathways in these cells. Mutations in this gene cause lymphoproliferative syndrome X-linked type 1 or Duncan disease, a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus, with symptoms including severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	16.300kDa inclusive of tags

 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

Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 7.5
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSESVPGV YCLCVLYHGY IYTYRVSQTE TGSWSAETAP GVHKRYFRKI KNLISAFQKP DQGIVIPLQY PVEKKSSARS TQGTGIREDD PDVCLKAP

GENE INFORMATION

Gene Name	SH2D1A SH2 domain containing 1A [Homo sapiens]
Official Symbol	SH2D1A
Synonyms	SH2D1A; SH2 domain containing 1A; IMD5, lymphoproliferative syndrome , LYP, SH2 domain protein 1A; SH2 domain-containing protein 1A; DSHP; Duncans disease; EBVS; MTCP1; SAP; XLP; XLPD;
Gene ID	4068
mRNA Refseq	NM_002351
Protein Refseq	NP_002342
MIM	300490

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Uniprot ID	O60880
Chromosome Location	Xq25
Pathway	Direct p53 effectors, organism-specific biosystem; Measles, organism-specific biosystem; Measles, conserved biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	SH3/SH2 adaptor activity;

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