

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

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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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