

## Recombinant Human SH2D1A Protein, MYC/DDK-tagged

Cat. No. SH2D1A-22H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant protein of human SH2 domain protein 1A (SH2D1A), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.

**Species** Human

**Source** HEK293

**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.

**Molecular Mass** 14 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Concentration** >50 µg/mL as determined by microplate BCA method

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

## GENE INFORMATION

**Gene Name** SH2D1A SH2 domain containing 1A [ Homo sapiens (human) ]

**Official Symbol** SH2D1A

**Synonyms**

SH2D1A; SH2 domain containing 1A; LYP; SAP; XLP; DSHP; EBVS; IMD5; XLPD; MTCP1; XLPD1; SAP/SH2D1A; SH2 domain-containing protein 1A; Duncan disease SH2-protein; LAM associated protein/SH2 domain protein 1A; SLAM-associated protein; T cell signal transduction molecule SAP; signaling lymphocyte activation molecule-associated protein; signaling lymphocytic activation molecule-associated protein

**Gene ID** 4068

**mRNA Refseq** NM\_002351

**Protein Refseq** NP\_002342

**MIM** 300490

**UniProt ID** O60880

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