



Recombinant Protein Technical Manual

Recombinant Human SH2D1A/SAP Protein (His Tag)(Active)
RPES3275

Product Data:

Product SKU: RPES3275

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: NP_002342.1

Protein Information:

Molecular Mass: 15.6 kDa

AP Molecular Mass: 14 kDa

Tag: N-His

Bio-activity: 1. Measured by its ability to bind recombinant human SLAMF1 in a functional ELISA. 2. Measured by its ability to bind recombinant human SLAMF6 in a functional ELISA. 3. Measured by its ability to bind recombinant mouse SLAMF6 in a functional ELISA. 4. Measured by its ability to bind recombinant mouse CD84 in a functional ELISA.

Purity: > 94 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.5, 20% glycerol

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: SH2 Domain-Containing Protein 1A; Duncan Disease SH2-Protein; Signaling Lymphocytic Activation Molecule-Associated Protein; SLAM-Associated Protein; T-Cell Signal Transduction Molecule SAP; SH2D1A; DSHP; EBVS; IMD5; LYP; MTCP1; SAP/SH2D1A; XLP; XLPD; XLPD1

Immunogen Information:

Sequence: Pro 2-Lys 97

Background:

SH2 domain-containing protein 1A (SH2D1A / SAP) is a 128 amino acid protein, containing a single Src homology 2 (SH2) domain, flanked by 5 amino acids at the N-terminus and 25 amino acids at the C-terminus. The absence of a catalytic domain and the presence of an SH2 domain suggest that SH2D1A regulates one or more signal transduction pathways. SH2D1A interacts with signaling lymphocytic activation molecule (SLAM), which is a transmembrane protein expressed on the surface of activated T and B cells. SH2D1A (SAP) interacts via its SH2 domain with a motif (TIYXXV) present in the cytoplasmic tail of the cell-surface receptors, including CD150 / SLAM, CD84, CD229 / Ly-9, and CD244 / 2B4. SH2D1A was expressed in EBV-carrying, tumor phenotype representative (type I), but not in EBV-carrying lymphoblastoid cell line (LCL)-like (type III) or EBV-negative Burkitt lymphoma (BL) lines. It has been supposed to be related to the X-linked lymphoproliferative disease which is also known as Duncan's disease or Purtilo syndrome.