

Product Data:

Product SKU: RPES4292

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q8WV28

Protein Information:

Molecular Mass: 51.5 kDa

AP Molecular Mass: 40-80 kDa

Tag: C-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM DTT, pH 7.2.

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

Application:

Synonyms: B-Cell Linker Protein; B-Cell Adapter Containing a SH2 Domain Protein; B-Cell Adapter Containing a Src Homology 2 Domain Protein; Cytoplasmic Adapter Protein; Src Homology 2 Domain-Containing Leukocyte Protein of 65 kDa; SLP-65; BLNK; BASH; SLP65

Immunogen Information:

Sequence: Met1-Ser456

Background:

B-Cell Linker Protein (BLNK) is a cell membrane protein which contains 1 SH2 domain. BLNK is expressed in B cells and fibroblast cell lines, playing an important role in B cell receptor signaling. BLNK as a central linker protein, downstream of the B-cell receptor (BCR), bridges the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function and development. BLNK associates with the activation of ERK/EPHB2, MAP kinase p38 and JNK, modulates AP1, NF-kappa-B and NFAT activation. BLNK involves in BCR-mediated PLCG1 and PLCG2 activation and Ca²⁺ mobilization and is required for trafficking of the BCR to late endosomes. BLNK deficiency results in agammaglobulinemia type 4 and much more profound block in B-cell development.