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Datasheet for ABIN7317342

B-Cell Linker Protein (BLNK) (His tag)

Overview

Quantity:	50 µg
Target:	B-Cell Linker (BLNK)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This B-Cell Linker protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human BLNK/Ly-57 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 456
Characteristics:	A DNA sequence encoding the human BLNK isoform 1 (AAH18906.1) (Met 1-Ser 456) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind human BTK in a functional ELISA.

Target Details

Target:	B-Cell Linker (BLNK)
Alternative Name:	BLNK/Ly-57 (BLNK Products)

Target Details

Background:	<p>Background: B-cell linker protein, also known as 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 and BLNK, is a cytoplasm and cell membrane protein which contains one SH2 domain. BLNK is expressed in B-cell lineage and fibroblast cell lines. Highest levels of expression is in the spleen, with lower levels in the liver, kidney, pancreas, small intestines and colon. BLNK functions as a central linker protein that bridges kinases associated with the B-cell receptor (BCR) with a multitude of signaling pathways, regulating biological outcomes of B-cell function and development. BLNK plays a role in the activation of ERK / EPHB2, MAP kinase p38 and JNK. BLNK modulates AP1 activation. It is important for the activation of NF-kappa-B and NFAT. BLNK plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca²⁺ mobilization and is required for trafficking of the BCR to late endosomes. BLNK may be required for the RAC1-JNK pathway. It plays a critical role in orchestrating the pro-B cell to pre-B cell transition. BLNK also plays an important role in BCR-induced B-cell apoptosis. Defects in BLNK are the cause of agammaglobulinemia type 4 (AGM4) which is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development.</p> <p>Synonym: 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</p>
Molecular Weight:	53 kDa
Pathways:	BCR Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, 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.