BLNK Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	BLNK, Blocking Peptide
Full Product Name	BLNK Peptide - N-terminal region
Product Gene Name	BLNK blocking peptide
Product Synonym Gene Name	bca; AGM4; BASH; LY57; SLP65; BLNK-S; SLP-65
Sequence	Synthetic peptide located within the following region: ADEEEQWSDD FDSDYENPDE HSDSEMYVMP AEENADDSYE PPPVEQETRP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	BLNK peptide (MBS3246424) is used for blocking the activity of BLNK antibody (MBS3221697)
Molecular Weight	50 kDa
OMIM	604515
Product Categories/Family for BLNK blocking peptide	Peptide
Related Product Information for BLNK blocking peptide	This is a synthetic peptide designed for use in combination with anti- BLNK Antibody, made Target Description: This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of BLNK blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BLNK purchase	MBS3246424 is a blocking peptide targeting BLNK. Also known as BLNK Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BLNK. It may not necessarily be applicable to this product.

NCBI GI #	166235901
NCBI GeneID	29760
NCBI Accession #	NP_001107566.1
UniProt Primary Accession #	Q8WV28
UniProt Related Accession #	Q8WV28
GenBank Nucleotide #	NM_001114094.1

NCBI Official Full Name	B-cell linker protein isoform 2
NCBI Official Synonym Full Names	B cell linker
NCBI Official Symbol	BLNK
NCBI Official Synonym Symbols	bca; AGM4; BASH; LY57; SLP65; BLNK-S; SLP-65
UniProt Protein Name	B-cell linker protein
UniProt Synonym Protein Names	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
Protein Family	B-cell linker protein
UniProt Gene Name	BLNK
UniProt Synonym Gene Names	BASH; SLP65; SLP-65
UniProt Entry Name	BLNK_HUMAN
NCBI Protein Information	B-cell linker protein
NCBI Summary for BLNK	This gene encodes a cytoplasmic linker or adaptor protein that plays a critical role in B cell development. This protein bridges B cell receptor-associated kinase activation with downstream signaling pathways, thereby affecting various biological functions. The phosphorylation of five tyrosine residues is necessary for this protein to nucleate distinct signaling effectors following B cell receptor activation. Mutations in this gene cause hypoglobulinemia and absent B cells, a disease in which the pro- to pre-B-cell transition is developmentally blocked. Deficiency in this protein has also been shown in some cases of pre-B acute lymphoblastic leukemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012]
UniProt Comments for BLNK	BLNK: an adaptor protein that bridges the B-cell receptor-associated kinases (BCR) with a multitude of signaling pathways, regulating biologic outcomes of B-cell function and development. Plays an important role in BCR-mediated PLCG1 activation and Ca(2) mobilization. Does not seem to be not required for pre-BCR-mediated activation of MAP kinase and phosphatidyl-inositol 3 (PI3) kinase signaling. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition. Following BCR activation, phosphorylated on tyrosine residues by SYK and LYN. When phosphorylated, serves as a scaffold to assemble downstream targets of antigen activation, including PLCG1, VAV1, GRB2 and NCK1. Its phosphorylation is required for both Ca(2) and MAPK signaling pathways. Defects in BLNK are the cause of hypoglobulinemia and absent B-cells.It has tumor supressor activity that is lost in many cases of childhood pre-B acute lymphoblastic leukemia (ALL). Two alternatively spliced isoforms have been described; these are differentially involved in activation and apoptosis of B lymphocytes. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 10q23.2-q23.33 Cellular Component: plasma membrane; intracellular; cytosol Molecular Function: protein binding; SH3/SH2 adaptor activity; transmembrane receptor protein tyrosine kinase adaptor protein activity Biological Process: positive regulation of signal transduction; B cell differentiation; inflammatory response; transmembrane receptor protein tyrosine kinase signaling pathway; humoral immune response Disease: Agammaglobulinemia 4, Autosomal Recessive
Research Articles on BLNK	**1.** vesicular signaling scaffolds are required for B cell activation indicates that vesicles may deliver preassembled signaling cargo to sites of BCR activation.
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