

Recombinant Human B Lymphoid Tyrosine Kinase, His-tagged

Cat. No. BLK-1345H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human BLK protein was expressed with N-terminal His-tag in High-Five cells using baculovirus expression system and purified by using conventional chromatography techniques. MW: 59.8 kDa.
Species	Human
Source	Hi-5 Insect Cells
ProteinLength	1-505aa
Description	BLK is a 55kDa tyrosine kinase with SH3, SH2, and catalytic domains that contain consensus sequences of the Src protein tyrosine kinase family. This protein is expressed specifically in the B cell lineage and plays a role in the signaltransduction pathway that is restricted to B lymphoid cells.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol 0.1M NaCl,1mM DTT,0.1mM PMSF.
Molecular Mass	59.8 kDa (525aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGLVSSKKPD KEKPIKEKDK GQWSPLKVSA QDKDAPPLPP LVVFNHLTPP PPDEHLDEDK HFVVALYDYT AMNDRDLQML KGEKLQVLKG TGDWWLARS LVTGREGYVPS NFVARVESLE MERWFFRSQG RKEAERQLLA PINKAGSFLI RESETNKGAF SLSVKDVTQ GELIKHYKIR CLDEGGYYIS PRITFPSLQA LVQHYSKKG DGLCQRLTLPC VRPAPQNPWA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QDEWEIPRQS LRLVRKLGSG QFGEVWMGY Y KNNMKVAIKT LKEGTMSPEA
 FLGEANVMKA LQHERLVRLY AVVTKEPIYI VTEYMARGCL LDFLKTDEGS
 RLSLPRLIDM SAQIAEGMAY IERMNSIHRD LRAANILVSE ALCKKIADFG
 LARIIDSEYT AQEGAKFPIK WTAPEAIHFG VFTIKADVWS FGVLLMEVVT
 YGRVPYPGMS NPEVIRNLER GYRMPRPDTC PPELYRGVIA ECWRSRPEER
 PTFEFLQSVL EDFYTATERQ YELQP

Purity	>80% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	BLK B lymphoid tyrosine kinase [Homo sapiens]
Official Symbol	BLK
Synonyms	BLK; B lymphoid tyrosine kinase; tyrosine-protein kinase Blk; MGC10442; p55-Blk; b lymphocyte kinase; BLK nonreceptor tyrosine kinase; MODY11;
Gene ID	640
mRNA Refseq	NM_001715
Protein Refseq	NP_001706

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MIM	191305
UniProt ID	P51451
Chromosome Location	8p23-p22
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; EPHA forward signaling, organism-specific biosystem;
Function	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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