

## Recombinant Human BLK, His-tagged

Cat. No. BLK-26112TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human BLK with an N terminal His tag 59.8 kDa.
<b>Species</b>	Human
<b>Source</b>	Hi-5 Insect Cells
<b>ProteinLength</b>	505 amino acids
<b>Description</b>	This gene encodes a nonreceptor tyrosine-kinase of the src family of proto-oncogenes that are typically involved in cell proliferation and differentiation. The protein has a role in B-cell receptor signaling and B-cell development. The protein also stimulates insulin synthesis and secretion in response to glucose and enhances the expression of several pancreatic beta-cell transcription factors.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	59.800kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in lymphatic organs, pancreatic islets, Leydig cells, striate ducts of salivary glands and hair follicles.
<b>Form</b>	Liquid
<b>Purity</b>	by SDS-PAGE

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.32% Tris HCl, 30% Glycerol, 0.58% Sodium chloride, 0.02% DTT, 0.002% PMSF
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MGSSHHHHHSSGLVPRGSHMGLVSSKKPDKEKPIKEKDKGQWSP LKVSAQDKDA  PPLPPLVVFNHLTPPPPDEHLDEDKHFVVALYDYTAMNDRDLQMLKGEKLQVLKGT  GDWWLARSLVTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLAPINKAG  SFLIRESETNKGAFSLSVKDVTQTGELIKHYKIRCLDEGGYYISPRITFPSLQALVQHY  SKKGDGLCQRLTLPCVRPAPQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVVMGY  YKNNMKVAIKTLKEGTMSPEAFLGEANVMKALQHERLVRLYAVVTKEPIYIVTEYMA  RGCLLDLFLKTDEGSRLSLPRLIDMSAQIAEGMAYIERMNSIHRDLRAANILVSEALCC  KIADFGRLARIIDSEYTAQEGAKFPIKWTAPEAIHFGVFTIKADVWSFGVLLMEVVTYGR  VPYPGMSNPEVIRNLERGYRMPRPDTPPELYRGVIAECWRSRPEERPTFEFLQSV  LEDFYTATERQYELQP</p>
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.

## GENE INFORMATION

<b>Gene Name</b>	BLK B lymphoid tyrosine kinase [ Homo sapiens ]
<b>Official Symbol</b>	BLK
<b>Synonyms</b>	BLK; B lymphoid tyrosine kinase; tyrosine-protein kinase Blk; MGC10442;
<b>Gene ID</b>	640

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<b>mRNA Refseq</b>	NM_001715
<b>Protein Refseq</b>	NP_001706
<b>MIM</b>	191305
<b>Uniprot ID</b>	P51451
<b>Chromosome Location</b>	8p23-p22
<b>Pathway</b>	Alpha-synuclein signaling, 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;
<b>Function</b>	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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