

Active Recombinant Human BLK, GST-tagged

Cat. No. BLK-1366H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human BLK was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	BLK, also known as B lymphoid kinase, is a 55 kd tyrosine kinases with a SH3, SH2 and catalytic domains that contain consensus sequences of the src protein tyrosine kinase family. BLK is expressed specifically in the B cell lineage and plays a role in signal transduction pathway that is restricted to B lymphoid cells. Stimulation of resting B-lymphocytes with antibodies to surface immunoglobulin (sIgD or sIgM) induces activation of BLK.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	112 nmol/min/mg
Molecular Mass	~84 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
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
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

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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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