

BLK, Active recombinant protein
BLK, B lymphocyte kinase
Catalog # PBV11299r**Specification**

BLK, Active recombinant protein - Product info

Primary Accession	P51451
Concentration	0.1
Calculated MW	84.0 kDa KDa

BLK, Active recombinant protein - Additional Info

Gene ID	640
Gene Symbol	BLK

Other Names

BLK, B lymphocyte kinase, p55-Blk

Source	Baculovirus (Sf9 insect cells)
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes

Format

Liquid

Storage

-80°C; Recombinant protein in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

BLK, Active recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BLK, Active recombinant protein - Images**BLK, Active recombinant protein - Background**

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 (1). Stimulation of resting B-lymphocytes with antibodies to surface

immunoglobulin (sIgD or sIgM) induces activation of Blk (2). Upon activation, the SH2 domain of Blk binds more than 10 distinct phosphoprotein including those of 72, 76, 115, and 130 kd (3). Blk prefers peptide substrates of the structure I/L-Y-D/E-X-L which resemble critical features of the ITAM motifs found in, e.g. the intracellular components Ig- α and Ig- β of the β cell receptor. Blk has a strong preference for a negatively charged amino acid in position +1 (4).

BLK, Active recombinant protein - References

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Drebin J.A.,et al.Oncogene 10:477-486(1995).
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