

## 32-8170: Recombinant Human Tyrosine-Protein Kinase Blk/BLK (C-6His)

**Gene :** BLK  
**Gene ID :** 640  
**Uniprot ID :** P51451

### Description

Source: E. coli.  
MW :58.7kD.

Recombinant Human B Lymphocyte Kinase is produced by our E.coli expression system and the target gene encoding Gly2-Pro505 is expressed with a 6His tag at the C-terminus. Tyrosine-Protein Kinase Blk (BLK) contains one protein kinase domain, one SH2 domain and one SH3 domain. BLK is a non-receptor tyrosine kinase, which is involved in B-lymphocyte development, differentiation and signaling. B-cell receptor (BCR) signaling requires a tight regulation of several protein tyrosine kinases and phosphatases, and associated coreceptors. Signaling through BLK plays an important role in transmitting signals through surface immunoglobulines and supports the pro-B to pre-B transition, as well as the signaling for growth arrest and apoptosis downstream of B-cell receptor. Defects in BLK are a cause of maturity-onset diabetes of the young type 11 (MODY11).

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Tris, 500mM NaCl, 1mM DTT, pH 7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** GLVSSKKPDKEKPIKEKDKGQWSPLKVSAQDKDAPPLPPLVVFNHLTPPPDEHLDEDKHFVVALYDYTAMND RDLQMLKGEKLQVLKGTGDWWLARS�VTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLAPINKAG SFLIRESETNKGAFSLSVKDVTTQGELIKHYKIRCLDEGGYISPRITFPSLQALVQHYSKKGDLGCQRLTLPCV RP APQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVWVMGYKNNMKVAIKTLKEGTMSPFAFLGEANVMKALQHE RLVRLYAVVTKEPIYVTEYMARGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAYIERMNSIHRDLRAANILVSEA LCCKIADFGRLARIIDSEYTAQEGAKFPIKWTAPEAIHFGVFTIKADVWSFGVLLMEVVTYGRVPYPGMSNPEVIRN LERGYRMPRPDTCPELYRGVIAECWRSRPEERPTFEFLQSVLEDFYTATERQYELQPLEHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.