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BLK Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

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|---------------------------|-------------------------|-----------------------------------|------------------------|----------------------------------|-------------------------------|-------------------------------|
| Applications: W | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 55 | Source/Isotype: Rabbit | UniProt ID: #P51451 | Entrez-Gene Id: 640 |
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| Product Usage Information | Application Western Blotting | Dilution 1:1000 |
| Storage | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i> | |
| Specificity/Sensitivity | BLK Antibody detects endogenous levels of total BLK. | |
| Source / Purification | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the carboxy-terminus of human BLK. Antibodies are purified by protein A and peptide affinity chromatography. | |
| Background | BLK is a Src family protein tyrosine kinase expressed in all stages of B cell development (1,2). Activation of B cells by various ligands is accompanied by activation of BLK (3). It has been suggested that BLK is involved in the control of B cell differentiation and proliferation (4,5). BLK transcripts have also been detected in human thymocytes, but not in mature T cells, implicating that BLK may play an important role in thymopoiesis (6). BLK function may be redundant, however, as mice that do not express BLK are not impaired with respect to B cell development and immune response (7). | |
| Background References | <ol style="list-style-type: none"> 1. Dymecki, S.M. et al. (1990) <i>Science</i> 247, 332-336. 2. Wasserman, R. et al. (1995) <i>J. Immunol.</i> 155, 644-651. 3. Sefton, B.M. et al. (1994) <i>Curr. Opin. Immunol.</i> 6, 372-379. 4. Malek, S.N. et al. (1998) <i>Proc. Natl. Acad. Sci. USA</i> 95, 7351-7356. 5. Yao, X.R. et al. (1993) <i>Proc. Natl. Acad. Sci. USA</i> 90, 7946-7950. 6. Islam, K.B. et al. (1995) <i>J. Immunol.</i> 154, 1265-1272. 7. Texido, G. et al. (2000) <i>Mol Cell Biol</i> 20, 1227-33. | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | W: Western Blotting |
| Cross-Reactivity Key | H: Human |
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