


#3262

BLK Antibody

Store at -20°C



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	55	Rabbit	#P51451	640

Product Usage Information	<p>Application</p> <p>Western Blotting</p> <p>Dilution</p> <p>1:1000</p>
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.

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	WB: Western Blotting
Cross-Reactivity Key	<p>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</p> <p>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</p> <p>GP: Guinea Pig Rab: rabbit All: all species expected</p>
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