

Phospho-Btk (Tyr223) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 77	Source/Isotype: Rabbit	UniProt ID: #Q06187	Entrez-Gene Id : 695
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. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Btk (Tyr223) Antibody detects endogenous levels of Btk only when phosphorylated at Tyr223.				
Species predicted to react based on 100% sequence homology		Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr223 of human Btk protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		other Btk family mem SH2 domains. Btk play ligands is accompanie phosphatidylinositol-3 with transient phosph loop is transphosphor Tyr223 within the SH3 negatively regulated l membrane recruitme	bers, it contains a pys an important role by Btk membran B,4,5-trisphosphate torylation of two tyrylated by the Src fall domain, which is roy PKCβ through phnt, transphosphory	er of the Btk/Tec family of eleckstrin homology (PH e in B cell development (e translocation mediated (3-5). The membrane-lo- cosine residues, Tyr551 a mily tyrosine kinases, le- lecessary for full activati losphorylation of Btk at lation, and subsequent a cell receptor signaling the) domain and Src ho (1,2). Activation of E d by its PH domain calized Btk is active and Tyr223. Tyr551 ading to autophos ion (6,7). The activa Ser180, which resu activation (8). The P	omology SH3 and cells by various binding to and associated in the activation ohorylation at tion of Btk is lts in reduced KC inhibitory signal
Background References		1. Khan, W.N. (2001) <i>Immunol Res</i> 23, 147-56. 2. Lewis, C.M. et al. (2001) <i>Curr Opin Immunol</i> 13, 317-25. 3. Salim, K. et al. (1996) <i>EMBO J</i> 15, 6241-50. 4. Rameh, L.E. et al. (1997) <i>J Biol Chem</i> 272, 22059-66. 5. Várnai, P. et al. (1999) <i>J Biol Chem</i> 274, 10983-9. 6. Rawlings, D.J. et al. (1996) <i>Science</i> 271, 822-5. 7. Park, H. et al. (1996) <i>Immunity</i> 4, 515-25. 8. Kang, S.W. et al. (2001) <i>EMBO J</i> 20, 5692-702.				
Species Reactivi	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	ıffor	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.				
Western bloc be	illei				primary antibody i	n 5% w/v BSA, 1X

Cross-Reactivity Key H: Human

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