T	ECHNOLOGY
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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 77	Source/Isotype: Rabbit IgG	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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity Btk (C82B8) R other unrelat				nous levels of total Btk. T	his antibody does r	not cross-react with
Source / Purificati	ion	Monoclonal antibody residues surrounding		nunizing animals with a k.	synthetic peptide co	orresponding to
Background		other Btk family men SH2 domains. Btk pla ligands is accompani phosphatidylinositol- with transient phosph loop is transphospho Tyr223 within the SH negatively regulated membrane recruitme	hbers, it contains a μ hys an important rol ed by Btk membran 3,4,5-trisphosphate horylation of two tyu hylated by the Src fa domain, which is r by ΡΚCβ through pl ent, transphosphory	er of the Btk/Tec family of bleckstrin homology (PH e in B cell development (e translocation mediate (3-5). The membrane-lo rosine residues, Tyr551 a mily tyrosine kinases, le necessary for full activation tosphorylation of Btk at lation, and subsequent a cell receptor signaling th) domain and Src ho (1,2). Activation of B d by its PH domain calized Btk is active and Tyr223. Tyr551 ading to autophosp on (6,7). The actival Ser180, which resul 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 Refer	rences	1. Khan, W.N. (2001) . 2. Lewis, C.M. et al. (2 3. Salim, K. et al. (199 4. Rameh, L.E. et al. (199 5. Várnai, P. et al. (199 6. Rawlings, D.J. et al. 7. Park, H. et al. (1996 8. Kang, S.W. et al. (20	2001) <i>Curr Opin Imn</i> 6) <i>EMBO J</i> 15, 6241- 1997) <i>J Biol Chem</i> 27 99) <i>J Biol Chem</i> 274, (1996) <i>Science</i> 271, 5) <i>Immunity</i> 4, 515-2	<i>nunol</i> 13, 317-25. 50. 2, 22059-66. 10983-9. 822-5. 5.		
Species Reactivity	,	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buff	er		TANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key		W: Western Blotting				
Cross-Reactivity K	ley	H: Human M: Mouse				
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