Revision 3			
Phospho-Btk (Tyr223) (D1D2Z) Rabbit mAb	Сете	Cell Signaling	
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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q06187	Entrez-Gene Id 695	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
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 aliguot the antibody.					
Specificity/Sensitivity		Phospho-Btk (Tyr223) (D1D2Z) Rabbit mAb recognizes endogenous levels of Btk protein only when phosphorylated at Tyr223. The antibody detects a 26 kDa protein of unknown identity that is not sensitive to treatment with anti-IgM or Ibrutinib.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr223 of human Btk protein.					
Background		other Btk family memb SH2 domains. Btk play ligands is accompanie phosphatidylinositol-3 with transient phospho loop is transphosphon Tyr223 within the SH3 negatively regulated b membrane recruitmen	pers, it contains a p s an important rold d by Btk membran ,4,5-trisphosphate orylation of two tyr /lated by the Src fa domain, which is r y PKCβ through ph t, transphosphory	er of the Btk/Tec family of leckstrin homology (PH) e in B cell development (e translocation mediated (3-5). The membrane-lo- osine residues, Tyr551 a mily tyrosine kinases, le ecessary for full activati osphorylation of Btk at a lation, and subsequent a cell receptor signaling th) domain and Src ho 1,2). Activation of E d by its PH domain calized Btk is active and Tyr223. Tyr551 ading to autophosy on (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 signa	
Background Ro	eferences	1. Khan, W.N. (2001) <i>In</i> 2. Lewis, C.M. et al. (20 3. Salim, K. et al. (1996 4. Rameh, L.E. et al. (1995 5. Várnai, P. et al. (1995 6. Rawlings, D.J. et al. (7. Park, H. et al. (1996) 8. Kang, S.W. et al. (200	01) Curr Opin Imn) EMBO J 15, 6241- 997) J Biol Chem 27 9) J Biol Chem 274, 1996) Science 271, Immunity 4, 515-2	nunol 13, 317-25. 50. 2, 22059-66. 10983-9. 822-5. 5.			
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer		ANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X % Tween® 20 at 4°C with gentle shaking, overnight.				
Applications K	ey	W: Western Blotting IF	: Immunoprecipita	ation			
Cross-Reactivit	ty Key	H: Human M: Mouse					
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