Btk (C82B8) Rabbit mAb



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 77	Source/Isotype: Rabbit IgG	UniProt ID: #Q06187	Entrez-Gene Id: 695	
Product Usage Information	Ар	Application		Dilution			
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Btk (C82B8) Rabbit mAb detects endogenous levels of total Btk. This antibody does not cross-react with other unrelated proteins.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro80 of human Btk.					
Bruton's tyrosine kinase (Btk) is a member of the Btk/Tec family of cytoplasmic tyrosine kinases Btk family members, it contains a pleckstrin homology (PH) domain and Src homology SH3 and domains. Btk plays an important role in B cell development (1,2). Activation of B cells by various accompanied by Btk membrane translocation mediated by its PH domain binding to phosphatid 3,4,5-trisphosphate (3-5). The membrane-localized Btk is active and associated with transient phosphorylation of two tyrosine residues, Tyr551 and Tyr223. Tyr551 in the activation loop is transphosphorylated by the Src family tyrosine kinases, leading to autophosphorylation at Tyr22 SH3 domain, which is necessary for full activation (6,7). The activation of Btk is negatively regul PKCβ through phosphorylation of Btk at Ser180, which results in reduced membrane recruitment transphosphorylation, and subsequent activation (8). The PKC inhibitory signal is likely to be a Reference of the B cell receptor signaling threshold to maintain optimal Btk activity (8).					y SH3 and SH2 by various ligands is hosphatidylinositol- ransient loop is n at Tyr223 within the vely regulated by recruitment, y to be a key		
Background Referer	1. Khan, W.N. (2001) Immunol Res 23, 147-56. 2. Lewis, C.M. et al. (2001) Curr Opin Immunol 13, 317-25. 3. Salim, K. et al. (1996) EMBO J 15, 6241-50. 4. Rameh, L.E. et al. (1997) J Biol Chem 272, 22059-66. 5. Várnai, P. et al. (1999) J Biol Chem 274, 10983-9. 6. Rawlings, D.J. et al. (1996) Science 271, 822-5. 7. Park, H. et al. (1996) Immunity 4, 515-25. 8. Kang, S.W. et al. (2001) EMBO J 20, 5692-702.						

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 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Btk (C82B8) Rabbit mAb (#3533) Datasheet Without Images Cell Signaling Technology

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