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e at -20C	Btk (D6T2C) Mouse mAb		Cell Signaling TECHNOLOGY®	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers Ma	assachusetts 01923 USA	

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

Applications: Reactive WB, IP, FC-FP H M		MW (kDa): 78	Source/Isotype: Mouse IgG2b	UniProt ID: #Q06187	Entrez-Gene Id: 695	
Product Usage Information	Application				Dilution	
information	Western Blotting				1:1000	
	Immunoprecipitation				1:200	
	Flow Cytometry (Fixed/F	Permeabilized)			1:800	
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.					
	For a carrier free (BSA a	nd azide free) v	ersion of this product se	e product #42879.		
Specificity / Sensitivity	BTK (D6T2C) Mouse mAb recognizes endogenous levels of total Btk protein. The antibody is predicted to recognize two known Btk isoforms (Btk-A and Btk-C), which are derived from the same gene, but regulated by alternative promoter usage.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human Btk protein. The region is 100% conserved between Btk-A and Btk-C isoforms.					
Background	Bruton's tyrosine kinase (Btk family members, it co domains. Btk plays an im accompanied by Btk mer 3,4,5-trisphosphate (3-5) phosphorylation of two ty transphosphorylated by t SH3 domain, which is ne PKCβ through phosphory transphosphorylation, an determinant of the B cell	ntains a plecks portant role in f nbrane transloc . The membran rosine residues he Src family ty cessary for full /lation of Btk at d subsequent a	trin homology (PH) dom 3 cell development (1,2) ation mediated by its PI e-localized Btk is active to Tyr551 and Tyr223. Ty rosine kinases, leading activation (6,7). The act Ser180, which results in ctivation (8). The PKC i	ain and Src homology Activation of B cells domain binding to pl and associated with t r551 in the activation to autophosphorylatio ivation of Btk is negation reduced membrane phibitory signal is likely	/ SH3 and SH2 by various ligands is hosphatidylinositol- ransient loop is n at Tyr223 within the ively regulated by recruitment, y to be a key	
Background References	1. Khan, W.N. (2001) <i>Imr.</i> 2. Lewis, C.M. et al. (200 3. Salim, K. et al. (1996) 4. Rameh, L.E. et al. (199 5. Várnai, P. et al. (1999) 6. Rawlings, D.J. et al. (1 7. Park, H. et al. (1996) <i>I</i> 8. Kang, S.W. et al. (2002)	1) Curr Opin Im EMBO J 15, 62 7) J Biol Chem J Biol Chem 27 996) Science 2 mmunity 4, 515	munol 13, 317-25. 41-50. 2722, 22059-66. 74, 10983-9. 71, 822-5. -25.			
Species Reactivity	Species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffer	IMPORTANT: For western 0.1% Tween® 20 at 4°C w			primary antibody in 5	% w/v BSA, 1X TBS,	
Applications Key	WB: Western Blotting IP:	Immunoprecipi	itation FC-FP: Flow Cyt	ometry (Fixed/Permea	abilized)	
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 (D6T2C) Mouse mAb (#56044) Datasheet Without Images Cell Signaling Technology

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