e at -20C	Phospho-Bcr (Tyr177) Antibody		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
)1		Support:	877-678-TECH (8324)		
#3901		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers	Massachusetts 01923 USA		

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

Applications: WB, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 160 (Bcr); 210 (Bcr-Abl)	Source: Rabbit	UniProt ID: #P11274	Entrez-Gene Id: 613	
Product Usage	Ap	plication				Dilution	
Information	We	estern Blotting				1:1000	
	Flo	ow Cytometry (Fixed	/Permeabilized)			1:100	
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 / Sensit		Phospho-Bcr (Tyr177) Antibody detects endogenous levels of Bcr and Bcr-Abl only when phosphorylated at tyrosine 177.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr177 of human Bcr. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		The Bcr gene was orginally identified by its presence in the chimeric Bcr-Abl oncogene (1). The amino- terminal region of Bcr contains an oligomerization domain, a serine/threonine kinase domain, and a region that binds SH2 domains. The middle of the protein has a PH domain and a region of sequence similarity to the guanine nucleotide exchange factors for the Rho family of GTP binding proteins. The carboxy-terminal region may be involved in a GTPase activating function for the small GTP-binding protein Rac (2,3). The function of wild type Bcr in cells remains unclear. PDGF receptor may use Bcr as a downstream signaling mediator (4). Research studies have shown that the Bcr-Abl fusion results in production of a constitutively active tyrosine kinase, which causes chronic myelogenous leukemia (CML) (5). Tyr177 of Bcr is phosphorylated in the Bcr-Abl fusion protein, which plays an important role in transforming the activity of Bcr-Abl (6). Phosphorylated Tyr177 provides a docking site for Gab2 and GRB2 (7,8).					
Background Refer	2. N 3. C 4. A 5. V 6. H 7. S	kbe, J. I. et al. (2001 /oncken, J. W. et al. le, Y. et al. (2002) <i>B</i> . Sattler, M. et al. (200		<i>i.</i> 947, 341-343. 728. 9-492.			
Species Reactivity	Spee	cies reactivity is dete	ermined by testing in	at least one appro	oved application (e.g., w	vestern 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 F	C-FP: Flow Cytome	try (Fixed/Permeal	pilized)		
Cross-Reactivity K	X : X	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					
Trademarks and Patents	All o		y is a trademark of the property of their		nology, Inc. 5. Visit cellsignal.com/tra	ademarks for more	
Limited Uses							

Phospho-Bcr (Tyr177) Antibody (#3901) Datasheet Without Images Cell Signaling Technology

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