Phospho-Bcr (Tyr177) Antibody





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 160 (Bcr); 210 (Bcr- Abl)	Source/Isotype: Rabbit	UniProt ID: #P11274	Entrez-Gene Id: 613		
Product Usage Information		Application Western Blotting Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 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/Sensitivity		Phospho-Bcr (Tyr177) Antibody detects endogenous levels of Bcr and Bcr-Abl only when phosphorylated at tyrosine 177.						
Source / Purific	cation	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 References 1. Groffen, J. et al. (1984) Cell 36, 93-99. 2. Maru, Y. et al. (1991) Cell 67, 459-468. 3. Che, W. et al. (2001) Circulation 104, 1399-1406. 4. Abe, J. I. et al. (2001) Ann. N.Y. Acad. Sci. 947, 341-343. 5. Voncken, J. W. et al. (2002) Blood 99, 2957-2968. 7. Sattler, M. et al. (2002) Cancer Cell 1, 479-492. 8. Warmuth, M. et al. (1995) J. Biol. Chem. 272, 33260-33270.								
Species Reactiv	vity	Species reactivity is	determined by testing	in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivit	ty Key	H: Human M: Mouse						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses			expressly agreed in a v apply to Products prov					

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.