

#3902 Store at -20°C

Bcr Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Pg	Endogenous	130, 160 (Bcr); 210 (Bcr-Abl)	Rabbit	#P11274	613

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	Bcr Antibody detects endogenous levels of total Bcr as well as the 210 kDa Bcr-Abl fusion protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human Bcr. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The Bcr gene was originally 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	<ol style="list-style-type: none"> 1. Groffen, J. et al. (1984) <i>Cell</i> 36, 93-99. 2. Maru, Y. et al. (1991) <i>Cell</i> 67, 459-468. 3. Che, W. et al. (2001) <i>Circulation</i> 104, 1399-1406. 4. Abe, J. I. et al. (2001) <i>Ann. N.Y. Acad. Sci.</i> 947, 341-343. 5. Voncken, J. W. et al. (1995) <i>Cell</i> 80, 719-728. 6. He, Y. et al. (2002) <i>Blood</i> 99, 2957-2968. 7. Sattler, M. et al. (2002) <i>Cancer Cell</i> 1, 479-492. 8. Warmuth, M. et al. (1995) <i>J. Biol. Chem.</i> 272, 33260-33270. 	

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 nonfat dry milk, 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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