Phospho-c-Abl (Tyr245) Antibody





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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 135 (c-Abl); 210 (Bcr-Abl)	Source/Isotype: Rabbit	UniProt ID: #P00519	Entrez-Gene Id: 25	
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/Sen	sitivity	Phospho-c-Abl (Tyr245) Antibody detects endogenous levels of c-Abl only when phosphorylated at tyrosine 245. The antibody cross-reacts with activated EGF receptors and PDGF receptors.					
Species predict based on 100% homology	ted to react sequence	Mouse					
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr245 of human c-Abl.					
Background		The c-Abl proto-oncogene encodes a nonreceptor protein tyrosine kinase that is ubiquitously expressed and highly conserved in metazoan evolution. c-Abl protein is distributed in both the nucleus and the cytoplasm of cells. It is implicated in regulating cell proliferation, differentiation, apoptosis, cell adhesion, and stress responses (1-3). c-Abl kinase activity is increased <i>in vivo</i> by diverse physiological stimuli including integrin activation; PDGF stimulation; and binding to c-Jun, Nck, and RFX1 (2,4). The <i>in vivo</i> mechanism for regulation of c-Abl kinase activity is not completely understood. Tyr245 is located in the linker region between the SH2 and catalytic domains. This positioning is conserved among Abl family members. Phosphorylation at Tyr245 is involved in the activation of c-Abl kinase (5). In addition, phosphorylation at Tyr412, which is located in the kinase activation loop of c-Abl, is required for kinase activity (6).					
Background Re	eferences	1. Wang, J.Y. (2000) <i>Oncogene</i> 19, 5643-50. 2. Van Etten, R.A. (1999) <i>Trends Cell Biol</i> 9, 179-86. 3. Danial, N.N. and Rothman, P. (2000) <i>Oncogene</i> 19, 2523-31. 4. Shaul, Y. (2000) <i>Cell Death Differ</i> 7, 10-6. 5. Brasher, B.B. and Van Etten, R.A. (2000) <i>J Biol Chem</i> 275, 35631-7. 6. Pluk, H. et al. (2002) <i>Cell</i> 108, 247-259.					
Species Reactiv	vity	Species reactivity is d	letermined 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					
Cross-Reactivit	ty Key	H: Human					
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