Phospho-c-Abl (Tyr204) (C42B5) Rabbit mAh



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 135 (c-Abl); 210 (Bcr-Abl)	Source/Isotype: Rabbit IgG	UniProt ID: #P00519	Entrez-Gene Id 25
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
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.				
Specificity/Sensitivity		Phospho-c-Abl (Tyr204) (C42B5) Rabbit mAb detects endogenous levels of c-Abl only when phosphorylated at Tyr204. This antibody may weakly cross-react with other tyrosine-phosphorylated proteins. For additional information please visit PhosphoSitePlus [®] , CST's modification site knowledgebase, at www.phosphosite.org.				
Species predicted to react based on 100% sequence homology		Mouse				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr204 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). Phosphorylation of c-Abl on Tyr204 was identified at Cell Signaling Technology (CST) using PhosphoScan®, CST's LC-MS/MS platform for phosphorylation site discovery as well as another publication using MS technology (7).				
Background References		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. 7. Meyn, M.A. et al. (2006) <i>J. Biol. Chem.</i> 281, 30907-30916.				
Species Reactiv	vitv	Species reactivity is d	letermined by testing	in at least one approve	ed application (e.g.	western hlot)

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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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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