Store at -20C

865

Phospho-c-Abl (Tyr412) (247C7) Rabbit mAb



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Applications: WB	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		pplication /estern Blotting			Dilution 1:1000		
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 / Sensit		Phospho-c-Abl (Tyr412) (247C7) Rabbit mAb detects endogenous Abl proteins only when phosphorylated at tyrosine 412. The antibody does not cross-react with other phosphorylated tyrosine kinases.					
Species predicted react based on 100 sequence homolog)%	buse					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr412 of human c-Abl.					
Background	an cyi an inc me lini me	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 Refere	2. 3. 4. 5.	 Wang, J.Y. (2000) Oncogene 19, 5643-50. Van Etten, R.A. (1999) Trends Cell Biol 9, 179-86. Danial, N.N. and Rothman, P. (2000) Oncogene 19, 2523-31. Shaul, Y. (2000) Cell Death Differ 7, 10-6. Brasher, B.B. and Van Etten, R.A. (2000) J Biol Chem 275, 35631-7. Pluk, H. et al. (2002) Cell 108, 247-259. 					
Species Reactivity	Spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffe		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	WE	WB: Western Blotting					
Cross-Reactivity K	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					
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Limited Uses

Phospho-c-Abl (Tyr412) (247C7) Rabbit mAb (#2865) Datasheet Without Images Cell Signaling Technology

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