Store at -200

Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 135 (c-Abl); 210 (Bcr-Abl)	Source/Isotype: Rabbit	UniProt ID: #P00519	Entrez-Gene lo 25
Product Usage Information	•	plication stern Blotting			Dilution 1:1000	
Storage	Sup	plied in 10 mM soo		5), 150 mM NaCl, 100	μg/ml BSA, 50% glyc	erol and less than
Specificity / Sensitivity		Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb detects endogenous levels of c-Abl only when phosphorylated at tyrosine 245. The antibody does not cross-react with other activated protein tyrosine kinases.				
Species predicted to react based on 100% sequence homology	6	se				
Source / Purification	•	•	s produced by immu Tyr245 of human c-A	nizing animals with a	synthetic phosphopep	tide corresponding to
Background	and cyto and inclu mec linke men phos	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 References 1. Wang, J.Y. (2000) Oncogene 19, 5643 2. Van Etten, R.A. (1999) Trends Cell Bio 3. Danial, N.N. and Rothman, P. (2000) C				9, 179-86.		

- 4. Shaul, Y. (2000) Cell Death Differ 7, 10-6.
- 5. Brasher, B.B. and Van Etten, R.A. (2000) J Biol Chem 275, 35631-7.
- 6. Pluk, H. et al. (2002) Cell 108, 247-259.

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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Limited Uses

Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb (#2868) Datasheet Without Images Cell Signaling Technology

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