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



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Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 135 (c-Abl); 210 (Bcr-Abl)	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P00519	Entrez-Gene Id 25
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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 (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		Mouse				
Source / Purification		Monoclonal antibody is 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 References		<ol> <li>Wang, J.Y. (2000) Oncogene 19, 5643-50.</li> <li>Van Etten, R.A. (1999) Trends Cell Biol 9, 179-86.</li> <li>Danial, N.N. and Rothman, P. (2000) Oncogene 19, 2523-31.</li> <li>Shaul, Y. (2000) Cell Death Differ 7, 10-6.</li> <li>Brasher, B.B. and Van Etten, R.A. (2000) J Biol Chem 275, 35631-7.</li> <li>Pluk, H. et al. (2002) Cell 108, 247-259.</li> </ol>				
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 popfat				

**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** W: Western Blotting

**Cross-Reactivity Key** H: Human

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