## Store at -200

## Phospho-c-Abl (Tyr245) Antibody



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 135 (c-Abl); 210 (Bcr-Abl)	Source: Rabbit	UniProt ID: #P00519	Entrez-Gene Id 25
Product Usage Information	Application			Dilution		
	We	Western Blotting			1:1000	
Storage		plied in 10 mM soo C. Do not aliquot th	· · · · · ·	150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at –		
Specificity / Sensitivity Phospho-c-Abl (Tyr245) Antibody detects et 245. The antibody cross-reacts with activate				ndogenous levels of c-Abl only when phosphorylated at tyrosine ed EGF receptors and PDGF receptors.		
Species predicted react based on 10 sequence homolo	0%	use				

Source / Purification

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 in vivo by diverse physiological stimuli including integrin activation; PDGF stimulation; and binding to c-Jun, Nck, and RFX1 (2,4). The in vivo 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, 5643-50.
- 2. Van Etten, R.A. (1999) Trends Cell Biol 9, 179-86.
- 3. Danial, N.N. and Rothman, P. (2000) Oncogene 19, 2523-31.
- 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 BSA, 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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## 3/23/24, 10:54 AM **Limited Uses**

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