

Store at  
-20°C

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

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#2868

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**Entrez-Gene ID #25**  
**UniProt ID #P00519**

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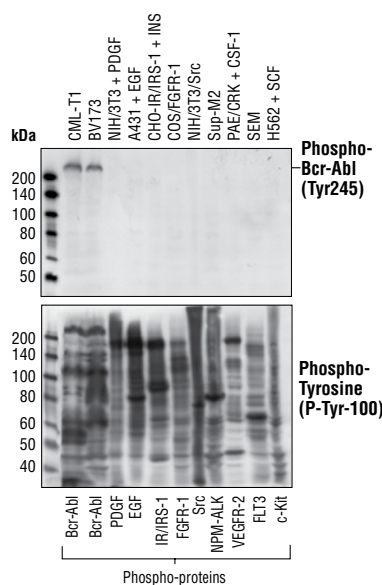
**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications W Endogenous	Species Cross-Reactivity* H, (M)	Molecular Wt. 135 kDa c-Abl. 210 kDa Bcr-Abl.	Isotype Rabbit IgG**
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**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).

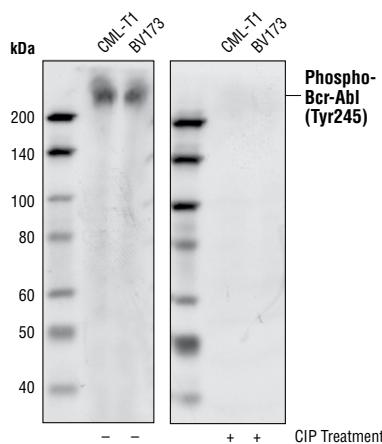
**Specificity/Sensitivity:** Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb detects endogenous levels of c-Abl only when phosphorylated at tyrosine 245. The antibody does not cross-react with other activated protein tyrosine kinases.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr245 of human c-Abl.



Western blot analysis of extracts from cells expressing various activated tyrosine kinase proteins, using Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb (upper) or Phospho-Tyrosine mAb (P-Tyr-100) #9411 (lower).

Western blot analysis of CML-T1 and BV173 cell lysates, using Phospho-c-Abl (Tyr245) (73E5) Rabbit mAb. The phospho-specificity of the antibody was verified by treating the membrane with (+) (right) or without (-) (left) calf intestinal phosphatase (CIP) after Western transfer.



**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000

**For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com**

**Background References:**

- (1) Wang, J.Y. et al. (2000) *Oncogene* 19, 5643-5650.
- (2) Van Etten, R.A. et al. (1999) *Trends Cell. Biol.* 9, 179-182.
- (3) Danial, N.N. et al. (2000) *Oncogene* 19, 2523-2531.
- (4) Shaul, Y. et al. (2000) *Cell Death Differ.* 7, 10-16.
- (5) Brasher, B.B. et al. (2000) *J. Biol. Chem.* 275, 35631-35637.
- (6) Pluk, H. et al. (2002) *Cell* 108, 247-259.

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**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.**

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.