

c-Abl (C-terminal region)

Mouse Monoclonal IgG1

Cat. # AM2091

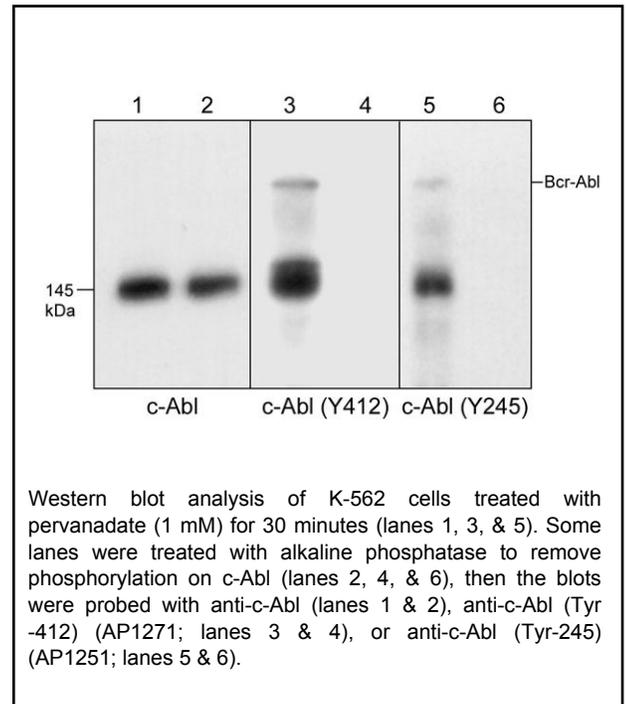
Size 100 µl

Background

The c-Abl proto-oncogene encodes a nonreceptor type protein tyrosine kinase that is widely expressed and is distributed in both the nucleus and the cytoplasm of cells. It has been implicated in regulation of cell proliferation, differentiation, apoptosis, cell adhesion, and stress response. A variety of stimuli activate c-Abl kinase including integrin activation, PDGF stimulation, and binding to proteins, such as c-Jun. Tyrosine phosphorylation is important for the regulation of c-Abl kinase activity. Tyrosine 245 is located in the linker region between the SH2 and catalytic domains. Phosphorylation of Tyr-245 is involved in activation of c-Abl kinase activity. Tyrosine 412 is located in the kinase activation loop of c-Abl, and phosphorylation of this residue is required for kinase activity. Thus, phosphorylation of Tyr-245 and Tyr-412 may be critical for activation of c-Abl in a variety of cell signaling pathways.

Background References

Van Etten, R.A. et al. (1999) Trends Cell. Biol. 9:179.
Brasher, B.B. et al. (2000) J. Biol. Chem. 275:35631.
Pluk, H. et al. (2002) Cell 108:247.



Applications

WB 1:1000
ELISA 1:2000

Species Reactivity

Hu, Rt, Ms

Specificity

This antibody detects a 145 kDa* protein corresponding to c-Abl on SDS-PAGE immunoblots of human K-562 and HL-60 cells, and mouse ANN-1 cells.

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen

Clone (M209) was generated from a recombinant protein corresponding to the C-terminal region of human c-Abl.

Buffer and Storage

Mouse monoclonal, protein G purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

AP1251 c-Abl (Tyr-245), phospho-specific Rabbit Polyclonal
AP1271 c-Abl (Tyr-412), phospho-specific Rabbit Polyclonal
FM2381 Fyn (N-terminal region) Mouse Monoclonal
KL8201 K-562 Pervanadate Control Lysate
KL8301 K-562 + Pervanadate Lysate

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