10320 Camino Santa Fe, Suite G
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Anti-c-Abl (Tyr-412), Phosphospecific Antibody
Catalog # AN1613

Specification

Anti-c-Abl (Tyr-412), Phosphospecific Antibody - Product Information

Primary Accession	P00519
Reactivity	**Bovine**
Host	**Rabbit**
Clonality	**Rabbit Polyclonal**
Isotype	**IgG**
Calculated MW	**122873**

Anti-c-Abl (Tyr-412), Phosphospecific Antibody - Additional Information

Gene ID **25**

Other Names
BCR-Abl, p150, Abelson murine leukemia viral oncogene homolog 1

Target/Specificity
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

Format
Antigen Affinity Purified

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Anti-c-Abl (Tyr-412), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Anti-c-Abl (Tyr-412), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

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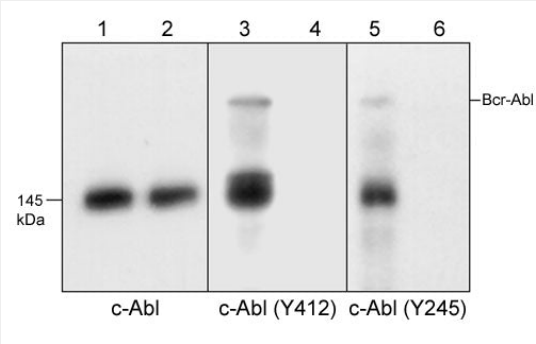
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-c-Abl (Tyr-412), Phosphospecific Antibody - Images



Western blot analysis of K-562 cells treated with pervanadate (1 mM) for 30 minutes (lanes 1, 3, & 5). Some lanes were treated with alkaline phosphatase to remove phosphorylation on c-Abl (lanes 2, 4, & 6), then the blots were probed with anti-c-Abl (lanes 1 & 2), anti-c-Abl (Tyr-412) (AP1271; lanes 3 & 4), or anti-c-Abl (Tyr-245) (AP1251; lanes 5 & 6).

Anti-c-Abl (Tyr-412), Phosphospecific Antibody - 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