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Phospho-ABL1-Y412

Reactivity: Human Mouse

Tested applications:IHC IF

Recommended Dilution:IHC 1:50 - 1:100 IF 1:100 - 1:200

Calculated MW:122kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding Y412 of human ABL1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

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Synonym:

ABL; JTK7; p150; c-ABL; v-abl; c-ABL1; bcr/abl;

Catalog #:AP0303

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:25

Isotype: IgG

Swiss Prot:P00519

Purity: Affinity purification

For research use only.

Background:

The ABL1 protooncogene encodes a cytoplasmic and nuclear protein tyrosine kinase that has been implicated in processes of cell differentiation, cell division, cell adhesion, and stress response. Activity of c-Abl protein is negatively regulated by its SH3 domain, and deletion of the SH3 domain turns ABL1 into an oncogene. The t(9;22) translocation results in the head-to-tail fusion of the BCR (MIM:151410) and ABL1 genes present in many cases of chronic myelogeneous leukemia. The DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function for ABL1. The ABL1 gene is expressed as either a 6- or 7-kb mRNA transcript, with alternatively spliced first exons spliced to the common exons 2-11.

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