

## 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 myelogenous 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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