

## ABL1 (Phospho Tyr412) Rabbit pAb

CatalogNo: YP1282

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 123kD (Calculated)  
140(200kD BCR-ABL complex)  
(Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:1000-2000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human c-Abl (Tyr412)

**Specificity** This antibody detects endogenous levels of Human ABL1 (phospho-Tyr412)

### Target Information

**Gene name** ABL1 ABL JTK7

**Protein Name**

c-Abl (Tyr412)

| Organism | Gene ID                  | UniProt ID               |
|----------|--------------------------|--------------------------|
| Human    | <a href="#">25</a> ;     | <a href="#">P00519</a> ; |
| Mouse    | <a href="#">11350</a> ;  | <a href="#">P00520</a> ; |
| Rat      | <a href="#">311860</a> ; |                          |

**Cellular Localization**

Cytoplasm > cytoskeleton. Nucleus. Sequestered into the cytoplasm through interaction with 14-3-3 proteins and Nucleus membrane. The myristoylated c-ABL protein is reported to be nuclear.

**Tissue specificity** Widely expressed.

**Function**

Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,cofactor:Magnesium or manganese. ,Disease:A chromosomal aberration involving ABL1 is a cause of chronic myeloid leukemia (CML) [MIM:608232]. Translocation t (9;22) (q34;q11) with BCR. The translocation produces a BCR-ABL found also in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL) . ,enzyme regulation:Stabilized in the inactive form by an association between the SH3 domain and the SH2-TK linker region , interactions of the amino-terminal cap , and contributions from an amino-terminal myristoyl group and phospholipids. Activated by autophosphorylation as well as by SRC-family kinase-mediated phosphorylation. Activated by RIN1 binding to the SH2 and SH3 domains. Inhibited by imatinib mesylate (Gleevec) which is used for the treatment of chronic myeloid leukemia (CML) . ,Function:Regulates cytoskeleton remodeling during cell differentiation , cell division and cell adhesion. Localizes to dynamic actin structures , and phosphorylates CRK and CRKL , DOK1 , and other proteins controlling cytoskeleton dynamics. Regulates DNA repair potentially by activating the proapoptotic pathway when the DNA damage is too severe to be repaired. ,online information:Abl entry ,PTM:Phosphorylated by PRKDC (By similarity) . DNA damage-induced activation of c-Abl requires the function of ATM and Ser-446 phosphorylation. Isoform IB is myristoylated on Gly-2. Phosphorylation on Thr-735 is required for binding 14-3-3 proteins for cytoplasmic translocation. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. ABL subfamily. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 SH2 domain. ,similarity:Contains 1 SH3 domain. ,subcellular location:The myristoylated c-ABL protein is reported to be nuclear. Sequestered into the cytoplasm through interaction with 14-3-3 proteins. ,subunit:Interacts with SORBS1 following insulin stimulation. Found in a trimolecular complex containing CDK5 and CABLES1. Interacts with CABLES1 and PSTPIP1. Interacts with ZDHHC16 (By similarity) . Interacts with INPPL1/SHIP2. Interacts with the 14-3-3 proteins , YWHAB , YWHAE , YWHAG , YWHAH , SFN AND YWHAZ; the interaction with 14-3-3 proteins requires phosphorylation on Thr-735 and , sequesters ABL1 into the cytoplasm. ,tissue specificity:Widely expressed. ,

## | Validation Data

## | Contact information

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Please scan the QR code  
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product information:  
**ABL1 (Phospho  
Tyr412) Rabbit pAb**

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