

## Abl1/2 (phospho Tyr393/439) Polyclonal Antibody

Catalog No: YP0004

**Reactivity:** Human; Mouse

**Applications:** WB;IHC;IF;ELISA

Target: Abl1/2

**Fields:** >>ErbB signaling pathway;>>Ras signaling pathway;>>Cell cycle;>>Axon

guidance;>>Neurotrophin signaling pathway;>>Pathogenic Escherichia coli

infection;>>Pathways in cancer;>>MicroRNAs in cancer;>>Chemical

carcinogenesis - reactive oxygen species;>>Chronic myeloid leukemia;>>Viral

myocarditis

Gene Name : ABL1/ABL2

**Protein Name:** Tyrosine-protein kinase ABL1/2

P00519/P42684

Human Gene Id: 25/27

**Human Swiss Prot** 

No:

Mouse Gene Id: 11350

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

Abl around the phosphorylation site of Tyr393/412. AA range:406-455

Specificity: Phospho-Abl1/2 (Y393/439) Polyclonal Antibody detects endogenous levels of

Abl1/2 protein only when phosphorylated at Y393/439.

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

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

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

125(200kd BCR-ABL complex? Observed Band:

ErbB HER;Cell Cycle G1S;Cell Cycle G2M DNA;Axon **Cell Pathway:** 

guidance; Neurotrophin; Pathogenic Escherichia coli infection; Pathways in

cancer; Chronic myeloid leukemia; Viral myocarditis;

This gene is a protooncogene that encodes a protein tyrosine kinase involved in **Background:** 

> a variety of cellular processes, including cell division, adhesion, differentiation, and response to stress. The activity of the protein is negatively regulated by its SH3 domain, whereby deletion of the region encoding this domain results in an oncogene. The ubiquitously expressed protein has DNA-binding activity that is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function. This gene has been found fused to a variety of translocation partner genes in various leukemias, most notably the t(9;22) translocation that results in a fusion with the 5' end of the breakpoint cluster region gene (BCR; MIM:151410). Alternative splicing of this gene results in two transcript variants, which contain alternative first exons that are spliced to the remaining common exons. [pr

**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

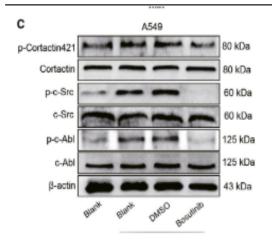
Subcellular Cytoplasm, cytoskeleton. Nucleus. Mitochondrion . Shuttles between the nucleus and cytoplasm depending on environmental signals. Sequestered into the Location: cytoplasm through interaction with 14-3-3 proteins. Localizes to mitochondria in

Lipid-anchor. The myristoylated c-ABL protein is reported to be nuclear.

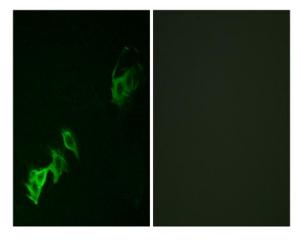
response to oxidative stress (By similarity). .: [Isoform IB]: Nucleus membrane:

**Expression:** Widely expressed.

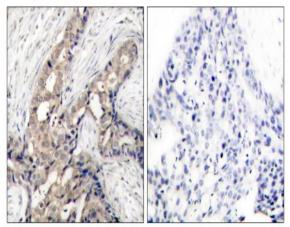
## **Products Images**



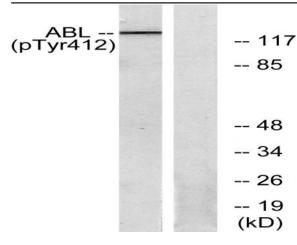
Fan, Mengtian, et al. "CX3CL1 promotes tumour cell by inducing tyrosine phosphorylation of cortactin in lung cancer." Journal of Cellular and Molecular Medicine 25.1 (2021): 132-146.



Immunofluorescence analysis of A549 cells, using AbI (Phospho-Tyr393/412) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Abl (Phospho-Tyr393/412) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells, using Abl (Phospho-Tyr393/412) Antibody. The lane on the right is blocked with the phospho peptide.

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