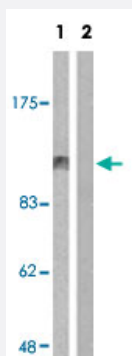


ABL1 (phospho Y412) polyclonal antibody

Catalog # PAB16947

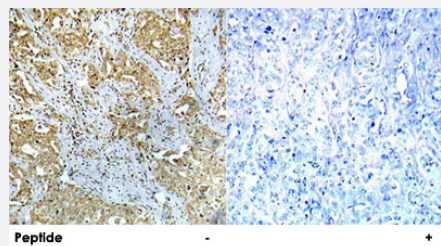
Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from COS-7 cells treated with Adriamycin.
Lane 1 : Using ABL1 (phospho Y412) polyclonal antibody (Cat # PAB16947).
Lane 2 : Using the same antibody preincubated with synthesized peptide.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ABL1 (phospho Y412) polyclonal antibody (Cat # PAB16947).

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic phosphopeptide of ABL1.

Immunogen

Synthetic phosphopeptide corresponding to residues surrounding Y412 of human ABL1.

Host

Rabbit

Reactivity

Human, Mouse, Rat

Specificity

This antibody detects endogenous levels of ABL1 only when phosphorylated at tyrosine 412.

Form

Liquid

Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:4000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from COS-7 cells treated with Adriamycin.

Lane 1 : Using ABL1 (phospho Y412) polyclonal antibody (Cat # PAB16947).

Lane 2 : Using the same antibody preincubated with synthesized peptide.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ABL1 (phospho Y412) polyclonal antibody (Cat # PAB16947).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ABL1

Entrez GeneID	25
Protein Accession#	P00519
Gene Name	ABL1
Gene Alias	ABL, JTK7, bcr/abl, c-ABL, p150, v-abl
Gene Description	c-abl oncogene 1, receptor tyrosine kinase
Omim ID	189980
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

Abelson murine leukemia viral (v-abl) oncogene homolog 1|OTTHUMP00000022375|OTTHUMP0000022376|bcr/c-abl oncogene protein|proto-oncogene tyrosine-protein kinase ABL1|v-abl Abelson murine leukemia viral oncogene homolog 1

Publication Reference

- [Global survey of phosphotyrosine signaling identifies oncogenic kinases in lung cancer.](#)

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Cell 2007 Dec; 131(6):1190.

- [Autoinhibition of c-Abl.](#)

Pluk H, Dorey K, Superti-Furga G.

Cell 2002 Jan; 108(2):247.

- [JAK-STAT signaling activated by Abl oncogenes.](#)

Danial NN, Rothman P.

Oncogene 2000 May; 19(21):2523.

Pathway

- [Axon guidance](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Neurotrophin signaling pathway](#)

- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Diabetes Complications](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Leukemia](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)