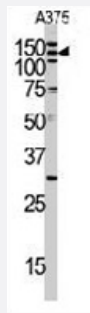


# ABL1 polyclonal antibody

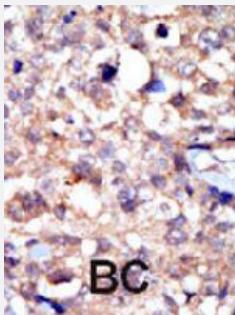
Catalog # PAB3413      Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of ABL1 polyclonal antibody (Cat # PAB3413) in A-375 cell line lysate. ABL1 (arrow) was detected using the purified polyclonal antibody.



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with ABL1 polyclonal antibody (Cat # PAB3413), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of ABL1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ABL1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification

<b>Recommend Usage</b>	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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## Gene Info — ABL1

<b>Entrez GeneID</b>	<a href="#">25</a>
<b>Protein Accession#</b>	<a href="#">NP_005148;P00519</a>
<b>Gene Name</b>	ABL1
<b>Gene Alias</b>	ABL, JTK7, bcr/abl, c-ABL, p150, v-abl
<b>Gene Description</b>	c-abl oncogene 1, receptor tyrosine kinase
<b>Omim ID</b>	<a href="#">189980</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

## 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|OTTHUMP00000022376|bcr/c-abl oncogene protein|proto-oncogene tyrosine-protein kinase ABL1|v-abl Abelson murine leukemia viral oncogene homolog 1

## Publication Reference

- [Structure of a regulatory complex involving the Abl SH3 domain, the Crk SH2 domain, and a Crk-derived phosphopeptide.](#)  
 Donaldson LW, Gish G, Pawson T, Kay LE, Forman-Kay JD.  
 PNAS 2002 Oct; 99(22):14053.
- [Crystal structure of the abl-SH3 domain complexed with a designed high-affinity peptide ligand: implications for SH3-ligand interactions.](#)  
 Pisabarro MT, Serrano L, Wilmanns M.  
 Journal of Molecular Biology 1998 Aug; 281(3):513.
- [Intramolecular interactions of the regulatory domains of the Bcr-Abl kinase reveal a novel control mechanism.](#)  
 Nam HJ, Haser WG, Roberts TM, Frederick CA.  
 Structure 1996 Sep; 4(9):1105.

## 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](#)