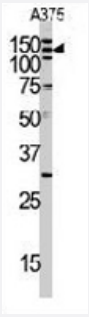
ABL1 polyclonal antibody

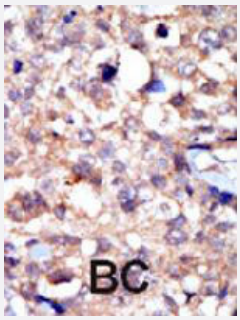
Catalog # PAB3413 Size 400 uL

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

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

Recommend Usage	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.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. 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 shoul d be handled by trained staff only.

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Gene Info — ABL1

Entrez GeneID	25
Protein Accession#	NP_005148;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 be en 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 domai n turns ABL1 into an oncogene. The t(9;22) translocation results in the head-to-tail fusion of the B CR (MIM:151410) and ABL1 genes present in many cases of chronic myelogeneous leukemia. T he DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDC 2-mediated phosphorylation, suggesting a cell cycle function for ABL1. The ABL1 gene is expres sed as either a 6- or 7-kb mRNA transcript, with alternatively spliced first exons spliced to the com mon exons 2-11. [provided by RefSeq
Other Designations	Abelson murine leukemia viral (v-abl) oncogene homolog 1|OTTHUMP00000022375|OTTHUMP0 0000022376|bcr/c-abl oncogene protein|proto-oncogene tyrosine-protein kinase ABL1|v-abl Abel son 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