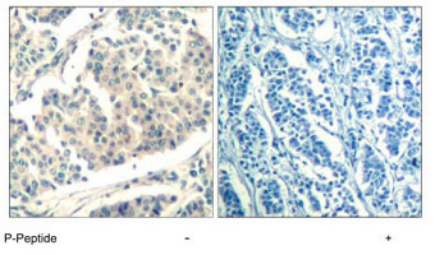
ABL1/ABL2 (phospho Y393/Y429) polyclonal antibody

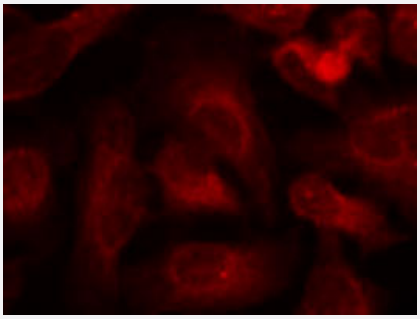
Catalog # PAB12190 Size 100 uL

Applications



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ABL1/ABL2 (phospho Y393/429) polyclonal antibody (Cat # PAB12190).



Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using ABL1/ABL2 (phospho Y393/429) polyclonal antibody (Cat # PAB12190, red).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ABL1/ABL2.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y393/Y429 of human ABL1/ABL2.
Sequence	DTYpTA
Host	Rabbit
Theoretical MW (kDa)	210
Reactivity	Human, Mouse

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Specificity	ABL1/2 (phospho-Tyr393/429) Antibody detects endogenous levels of ABL1/2 only when phosphorylated at tyrosine393/429.
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunofluorescence (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	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

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ABL1/ABL2 (phospho Y393/429) polyclonal antibody (Cat # PAB12190).

- Immunofluorescence

  Immunofluorescence staining of methanol-fixed HeLa cells using ABL1/ABL2 (phospho Y393/429) polyclonal antibody (Cat # PAB12190, red).

Gene Info — ABL1

Entrez GeneID	25
Protein Accession#	P00519 (Gene ID : 25);P42684 (Gene ID : 27)
Gene Name	ABL1
Gene Alias	ABL, JTK7, bcr/abl, c-ABL, p150, v-abl
Gene Description	c-abl oncogene 1, receptor tyrosine kinase

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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

Gene Info — ABL2

Entrez GeneID	27
Protein Accession#	P00519 (Gene ID : 25);P42684 (Gene ID : 27)
Gene Name	ABL2
Gene Alias	ABLL, ARG, FLJ22224, FLJ31718, FLJ41441
Gene Description	v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)
Omim ID	164690
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinase. The pr otein is highly similar to the ABL1 protein, including the tyrosine kinase, SH2 and SH3 domains, a nd has a role in cytoskeletal rearrangements by its C-terminal F-actin- and microtubule-binding se quences. This gene is expressed in both normal and tumor cells, and is involved in translocation w ith the ETV6 gene in leukemia. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq
Other Designations	Abelson murine leukemia viral (v-abl) oncogene homolog 2|Abelson-related gene protein|OTTHU MP00000033139|arg tyrosine kinase|v-abl Abelson murine leukemia viral oncogene homolog 2

Publication Reference

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- Autoinhibition of c-Abl.

  Pluk H, Dorey K, Superti-Furga G.

  Cell 2002 Jan; 108(2):247.

- c-Abl has high intrinsic tyrosine kinase activity that is stimulated by mutation of the Src homology 3 domain and by autophosphorylation at two distinct regulatory tyrosines.

  Brasher BB, Van Etten RA.

  The Journal of Biological Chemistry 2000 Nov; 275(45):35631.

- 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
- ErbB signaling pathway
- Neurotrophin signaling pathway
- Pathogenic Escherichia coli infection - EHEC
- Pathways in cancer

Disease

- Adenocarcinoma
- Alzheimer disease
- Alzheimer disease
- Breast cancer

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- Breast Neoplasms
- Cardiovascular Diseases
- Cardiovascular Diseases
- Chronic Disease
- Diabetes Complications
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- HIV Infections
- Leukemia
- Metabolic Syndrome X
- Metabolic Syndrome X
- Neoplasms
- Neoplasms
- Osteoporosis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms

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