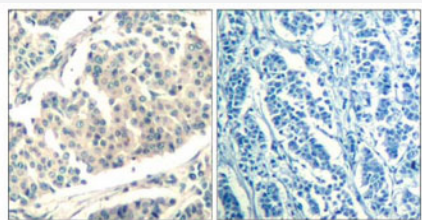


# ABL1/ABL2 (phospho Y393/Y429) polyclonal antibody

Catalog # PAB12190

Size 100 uL

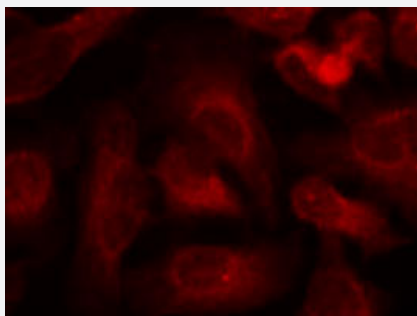
## Applications



P-Peptide

### 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                                                                                                       |

|                         |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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)<br>Immunofluorescence (1:100-1:200)<br>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.<br>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      | <a href="#">25</a>                                          |
| Protein Accession# | <a href="#">P00519 (Gene ID : 25);P42684 (Gene ID : 27)</a> |
| 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            | <a href="#">189980</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Ontology      | <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 OTTHUMP0000022376 bcr/c-abl oncogene protein proto-oncogene tyrosine-protein kinase ABL1 v-abl Abelson murine leukemia viral oncogene homolog 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Gene Info — ABL2

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">27</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Accession# | <a href="#">P00519 (Gene ID : 25);P42684 (Gene ID : 27)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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            | <a href="#">164690</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Summary       | This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinase. The protein is highly similar to the ABL1 protein, including the tyrosine kinase, SH2 and SH3 domains, and has a role in cytoskeletal rearrangements by its C-terminal F-actin- and microtubule-binding sequences. This gene is expressed in both normal and tumor cells, and is involved in translocation with 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 OTTHUMP00000033139 arg tyrosine kinase v-abl Abelson murine leukemia viral oncogene homolog 2                                                                                                                                                                                                                                                                                                                                                                                            |

## Publication Reference

- [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](#)

- [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](#)