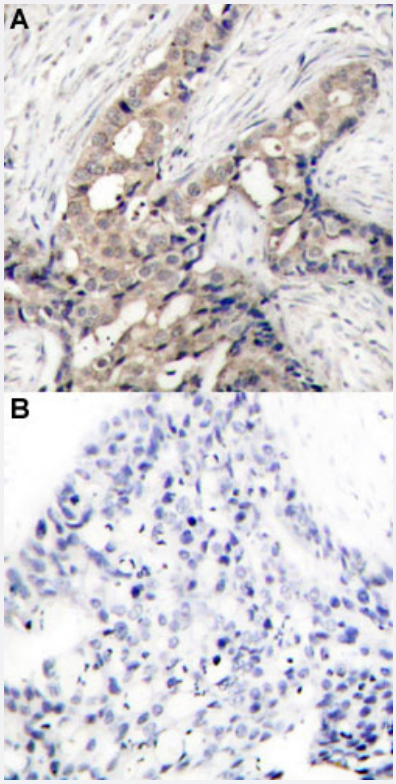
ABL1 (phospho Y412) polyclonal antibody

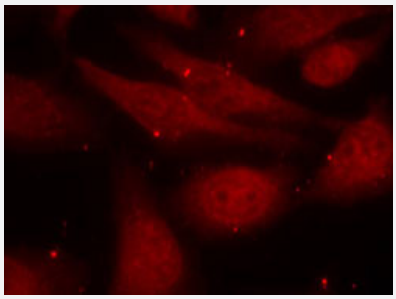
Catalog # PAB29611 Size 100 uL

Applications



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

Immunohistochemical staining of human breast cancer tissue by ABL1 (phospho Y412) polyclonal antibody (Cat# PAB29611) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.



Immunofluorescence

Immunofluorescent staining of methanol-fixed Hela cells using ABL1 (phospho Y412) polyclonal antibody (Cat# PAB29611) at 1:100-1:200 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of human ABL1.

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Immunogen	A synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y412 of human ABL1.
Host	Rabbit
Theoretical MW (kDa)	135, 210
Reactivity	Human, Mouse, Rabbit
Form	Liquid
Purification	Affinity Chromatography
Recommend Usage	Immunofluorescence (1:100-1:200) Immunohistochemistry (1:50-1:100) 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 staining of human breast cancer tissue by ABL1 (phospho Y412) polyclonal antibody (Cat# PAB29611) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

- Immunofluorescence

  Immunofluorescent staining of methanol-fixed Hela cells using ABL1 (phospho Y412) polyclonal antibody (Cat# PAB29611) at 1:100-1:200 dilution.

Gene Info — ABL1

Entrez GeneID	25
Protein Accession#	P00519
Gene Name	ABL1
Gene Alias	ABL, JTK7, bcr/abl, c-ABL, p150, v-abl

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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

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

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- Chronic Disease
- Diabetes Complications
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- HIV Infections
- Leukemia
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms

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