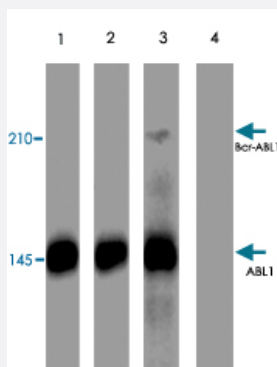


ABL1 (phospho Y245) polyclonal antibody

Catalog # PAB7918 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of K-562 cells treated with pervanadate (1 mM) for 30 minutes (lanes 1 & 3). Some lanes were treated with alkaline phosphatase to remove phosphorylation on ABL1 (lanes 2 & 4), then the blots were probed with anti ABL1 (lanes 1 & 2), ABL1 (phospho Y245) polyclonal antibody (Cat # PAB7918) (lanes 3 & 4).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ABL1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y245 of human ABL1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This peptide sequence has high homology to the conserved site in rat and mouse c-Abl, as well as in viral Abl and BCR-Abl fusion protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% 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

- Western Blot (Cell lysate)

Western blot analysis of K-562 cells treated with pervanadate (1 mM) for 30 minutes (lanes 1 & 3). Some lanes were treated with alkaline phosphatase to remove phosphorylation on ABL1 (lanes 2 & 4), then the blots were probed with anti ABL1 (lanes 1 & 2), ABL1 (phospho Y245) polyclonal antibody (Cat # PAB7918) (lanes 3 & 4).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ABL1

Entrez GeneID[25](#)**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 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 CDC 2-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

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.

- [Cycling, stressed-out and nervous: cellular functions of c-Abl.](#)

Van Etten RA.

Trends in Cell Biology 1999 May; 9(5):179.

Application: WB-Ce, WB-Tr, Human, Mammalian cells

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](#)