



Human ABL1 peptide (DAG-P0254)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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, Jul 2008]
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Specificity	Widely expressed.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. ABL subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	ABL1 c-abl oncogene 1, non-receptor tyrosine kinase [Homo sapiens (human)]
Official Symbol	ABL1

Synonyms	ABL1; c-abl oncogene 1, non-receptor tyrosine kinase; ABL; JTK7; p150; c-ABL; v-abl; c-ABL1; bcr/abl; tyrosine-protein kinase ABL1; proto-oncogene c-Abl; bcr/c-abl oncogene protein; Abelson tyrosine-protein kinase 1; c-abl oncogene 1, receptor tyrosine kinase; proto-oncogene tyrosine-protein kinase ABL1; v-abl Abelson murine leukemia viral oncogene homolog 1;
Entrez Gene ID	25
mRNA Refseq	NM_005157.4
Protein Refseq	NP_005148.2
UniProt ID	P00519
Chromosome Location	9q34.1
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem; DNA damage response, organism-specific bi
Function	ATP binding; DNA binding; SH3 domain binding; actin monomer binding; magnesium ion binding; manganese ion binding; mitogen-activated protein kinase binding; nicotinate-nucleotide adenylyltransferase activity; non-membrane spanning protein tyrosine kinase