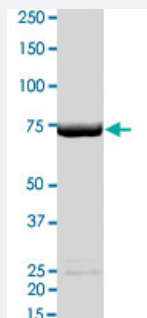


Bioactive

ABL1 (E255K) (Human) Recombinant Protein

Catalog # P4806 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description

Human ABL1 (NM_005157.3, 118 a.a. - 535 a.a.) E255K mutant partial recombinant protein expressed in Sf9 cells.

Sequence

PVNSLEKHSWYHGPPVSRNAEYLLSSGINGSFLVRESESSPGQRSISLRYEGRVYHYRINTASDGK
LYVSSESFRNTLAELVHHHSTVADGLITTLHYPAPKRNKPTVYGVSPNYDKWEMERTDITMKHKL
GGQYGVYEGVWKKYSLTAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGVC TREPPFYIT
EFMTYGNLLDYLRECNRQEVNAVVLVYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHLVKVA
DFGLSRLMTGDTYTAHAGAKFPIKWTAPESLAYNKFSIKSDVWAFGVLLWEIATYGMSPYPGIDLS
QVYELLEKDYRMERPEGCEPKVYELMRACWQWNPSDRPSFAEIHQAFETMFQESSISDEVEKE
LGKQGVIRGAVSTLLQAPELPTKTRTS

Host

insect

Theoretical MW (kDa)

76.166

Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST affinity chromatography
Concentration	0.186 ug/uL
Activity	116 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5 (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — ABL1

Entrez GeneID	25
Protein Accession#	NM_005157.3
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 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

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](#)