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Datasheet

ABL1 (Human) Recombinant Protein

Catalog Number: P4634

Regulation Status: For research use only (RUO)

Product Description: Human ABL1 (NM_005157.3, 118 a.a. - 535 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.

Sequence:
PVNSLEKHSWYHGPVSRNAAEYLLSSGINGSFLVRES
ESSPGQRSISLRYEGRVYHYRINTASDGKLYVSSESRF
NTLAELVHHHSTVADGLITTLHYPAPKRNKPTVYGVSP
NYDKWEMERTDITMKHKLGGGQYGEVYEGVWKKYSL
TVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGV
CTREPPFYIITEFMTYGNLLDYLRECNRQEVNAVVLLY
MATQISSAMEYLEKKNFIHRDLAARNCLVGENHLVKVA
DFGLSRLMTGDTYTAHAGAKFPIKWTAPESLAYNKFSI
KSDVWAFGVLLWEIATYGMSPYPGIDLSQVYELLEKD
YRMERPEGCPEKVYELMRACWQWNPSDRPSFAEIHQ
AFETMFQESSISDEVEKELGKQGVRGAVSTLLQAPEL
PTKTRTS

Host: insect

Theoretical MW (kDa): 76.167

Applications: Func, SDS-PAGE
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Liquid

Preparation Method: Insect cell (Sf9) expression system

Purification: GST affinity chromatography

Concentration: 0.414 ug/uL

Activity: 75 pmol/ug x min

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

Entrez GeneID: 25

Gene Symbol: ABL1

Gene Alias: ABL, JTK7, bcr/abl, c-ABL, p150, v-abl

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 myelogeneous 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]