

Active Recombinant mouse Abl1, His-tagged

Cat. No. Abl1-982M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse ABL1 (27-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	27-end a.a.
Description	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 ABL protein is negatively regulated by its SH3 domain and deletion of the SH3 domain turns ABL1 into an oncogene. Translocation and head-to-tail fusion of the BCR and ABL1 genes is present in many cases of chronic myelogenous leukemia. The DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDK1-mediated phosphorylation, suggesting a cell cycle function for ABL1.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	820 nmol/min/mg
Molecular Mass	~135 kDa

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Purity	>70%
Applications	Kinase Assay; Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	Abl1?c-abl oncogene 1, non-receptor tyrosine kinase [?Mus musculus(house mouse)]
Official Symbol	Abl1
Synonyms	c-abl oncogene 1, non-receptor tyrosine kinase
Gene ID	11350
mRNA Refseq	NM_009594
Protein Refseq	NP_033724
UniProt ID	P00520
Chromosome Location	2 B; 2 21.86 cM

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Pathway	Alpha6-Beta4 Integrin Signaling Pathway; CDO in myogenesis; Chronic myeloid leukemia
Function	SH3 domain binding; magnesium ion binding; mitogen-activated protein kinase binding

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