

Recombinant Mouse ABL1, His-tagged, Active

Mouse, Recombinant (Abl1, His-tagged)

Expressed in *Sf9*

Cat. No. *Abl1-232M*

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Recombinant mouse ABL1 (27-end) was expressed by *baculovirus* in *Sf9* insect cells using an N-terminal His tag. MW=135 kDa.

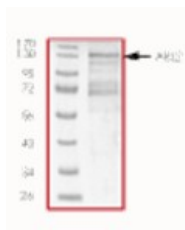
Description: ABL1 protooncogene encodes a cytoplasmic and nuclear protein tyrosine kinase that has been implicated in processes of cell differentiation, cell division, cell adhesion, and stress response. Activity of ABL protein is negatively regulated by its SH3 domain and deletion of the SH3 domain 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.

Source: *Sf9* insect cells.

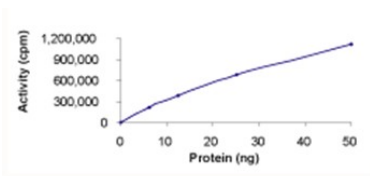
Applications: Kinase Assay, Western Blot.

Stability: Store product at -70°C . 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.

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.



PDB rendering based on 1ab2.

GENE INFORMATION

Gene Name: [Abl1 c-abl oncogene 1, receptor tyrosine kinase \[*Mus musculus* \]](#)

Synonyms: Abl1; c-abl oncogene 1, receptor tyrosine kinase; Abl; c-Abl; AI325092; MGC117749; E430008G22Rik

GeneID: [11350](#)

mRNA Refseq: [NM_001112703](#)

Protein Refseq: [NP_001106174](#)

UniProt ID: P00520

Chromosome Location: 2 21.0 cM

Pathway: Axon guidance; Cell cycle; Chronic myeloid leukemia; ErbB signaling pathway; Neurotrophin signaling pathway; Pathways in cancer

Function: ATP binding; magnesium ion binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein domain specific binding; protein kinase activity; protein tyrosine kinase activity; transferase activity

REFERENCES

1. Barila, D. et al : An intramolecular SH3-domain interaction regulates c-Abl activity. *Nature Genet.* 18: 280-282, 1998.
2. Goldman, J M. et al : Targeting the BCR-ABL tyrosine kinase in chronic myeloid leukemia. *New Eng. J. Med.* 344: 1084-1086, 2001.

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