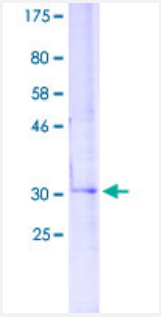
Sm Size

ABL1 (Human) Recombinant Protein (Q01)

Catalog # H00000025-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ABL1 partial ORF (NP_005148.2, 931 a.a. - 1030 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	KTKATSLVDAVNSDAAKPSQPGEGLKKPVLPATPKPQSAKPSGTPISPAPVPSTLPSASSALAG DQPSSTAFIPLISTRVSLRKTRQPPERIASGAITKG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (75); Rat (77)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ABL1

Entrez GeneID	25
GeneBank Accession#	NM_005157.4
Protein Accession#	NP_005148.2
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 be en 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 domai n turns ABL1 into an oncogene. The t(9;22) translocation results in the head-to-tail fusion of the B CR (MIM:151410) and ABL1 genes present in many cases of chronic myelogeneous leukemia. T he DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDC 2-mediated phosphorylation, suggesting a cell cycle function for ABL1. The ABL1 gene is expres sed as either a 6- or 7-kb mRNA transcript, with alternatively spliced first exons spliced to the com mon exons 2-11. [provided by RefSeq
Other Designations	Abelson murine leukemia viral (v-abl) oncogene homolog 1|OTTHUMP00000022375|OTTHUMP0 0000022376|bcr/c-abl oncogene protein|proto-oncogene tyrosine-protein kinase ABL1|v-abl Abel son murine leukemia viral oncogene homolog 1

Pathway

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- 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

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