

Datasheet for ABIN7317077

**ABL1 Protein (GST tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	ABL1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ABL1 protein is labelled with GST tag.

## Product Details

Purpose:	Recombinant Human ABL1/JTK7/p150 Protein (GST Tag)(Active)
Sequence:	Pro 137-Ser 554
Characteristics:	A DNA sequence encoding the amino acid sequence (Pro 137-Ser 554) of human ABL1 isoform B (NP_009297.2) was fused with the GST tag at the N-terminus.
Purity:	> 75 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 240 nmol/min/mg using synthetic Abl peptide (EAIYAAPFAKKK) as substrate.

## Target Details

Target:	ABL1
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## Target Details

Alternative Name: ABL1/JTK7/p150 ([ABL1 Products](#))

Background: Background: c-Abl belongs to the class of tyrosine kinases and is the prototype of a subfamily which includes two members, c-Abl and Arg (Abl-related gene). Both proteins are localized at the cell membrane, actin cytoskeleton and cytosol, and c-Abl is present in the nucleus as well. c-Abl is a non-receptor tyrosine kinase that participates in multiple signaling pathways linking the cell surface, cytoskeleton, and the nucleus. Recent in vitro studies have also linked c-Abl to amyloid-beta-induced toxicity and tau phosphorylation. c-Abl has been implicated in many cellular processes including differentiation, division, adhesion, death, and stress response. c-Abl is a latent tyrosine kinase that becomes activated in response to numerous extra- and intra-cellular stimuli. The c-Abl protein is a ubiquitously expressed nonreceptor tyrosine kinase involved in the development and function of many mammalian organ systems, including the immune system and bone. It regulates the cellular response to TAM through functional interaction with the estrogen receptor, which suggests c-Abl as a therapeutic target and a prognostic tumor marker for breast cancer. c-Abl also plays a key role in signaling chemokine-induced T-cell migration. In addition, c-Abl contains NLSs (nuclear localization signals) and DNA-binding sequences important for nuclear functions. c-Abl has become an important therapeutic target in human chronic myeloid leukaemia. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: ABL;bcr/abl;c-ABL;c-ABL1;JTK7;p150;v-abl

Molecular Weight: 74 kDa

NCBI Accession: [NP\\_009297](#)

Pathways: [Apoptosis](#), [Regulation of Muscle Cell Differentiation](#), [Platelet-derived growth Factor Receptor Signaling](#), [Lipid Metabolism](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

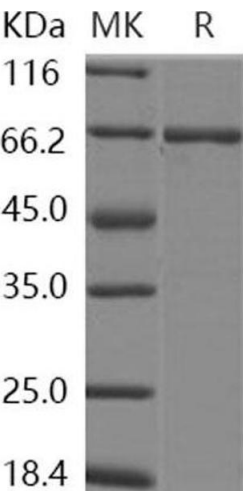
Buffer: Supplied as sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM EDTA, 0.5 mM Reduced Glutathione, pH 8.0

Storage: -20 °C

Handling

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Images



**Western Blotting**

**Image 1.**