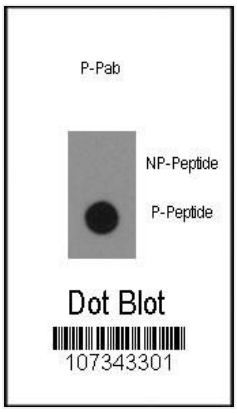
c-ABL Antibody – Rabbit Polyclonal

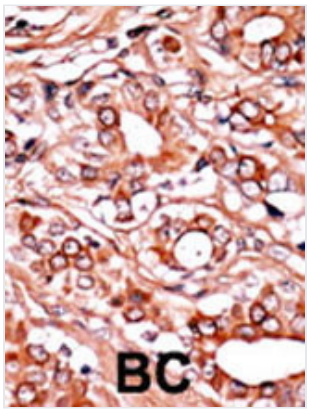
PRODUCT OVERVIEW

Product Name	c-Abl, Polyclonal Antibody
Full Product Name	c-Abl, Phosphorylated (Tyr134) (ABL, Tyrosine-protein Kinase ABL1, Abelson Murine Leukemia Viral Oncogene Homolog 1, Proto-oncogene c-Abl, p150, ABL1, JTK7) (Azide free) (HRP)
Product Gene Name	anti-c-Abl antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ABL1 when phosphorylated at Tyr134.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	124,955 Da
OMIM	189980
3D Structure	ModBase 3D Structure for P00519
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Tyr134 of human ABL1 (KLH).
Conjugate	HRP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-c-Abl antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-c-Abl antibody	ELISA (EISA), Western Blot (WB), Dot Blot (DB), Immunohistochemistry (IHC)
Application Notes for anti-c-Abl antibody	ELISA: 1:1,000 Dot Blot: 1:500 IHC: 1:50-1:100 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-c-Abl antibody	MBS6466187 is an antibody targeting c-Abl. Also known as c-Abl, Phosphorylated (Tyr134) (ABL, Tyrosine-protein Kinase ABL1, Abelson Murine Leukemia Viral Oncogene Homolog 1, Proto-oncogene c-Abl, p150, ABL1, JTK7) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-c-Abl antibody	1. Barnes, K., et al., Oncogene 24(20):3257-3267 (2005). 2. Kim, Y.R., et al., Genes Chromosomes Cancer 43(1):37-44 (2005). 3. Aichberger, K.J., et al., Blood 105(8):3303-3311 (2005). 4. Wei, G., et al., J. Biol. Chem. 280(13):12271-12278 (2005). 5. Robinson, H.M., et al., Leukemia 19(4):564-571 (2005).

Other Notes	Small volumes of anti-c-Abl antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Dot Blot (DB) of anti-c-Abl antibody
Dot blot analysis of anti-Phospho-ABL1-Y134 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.



Immunohistochemistry (IHC) of anti-c-Abl antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for c-Abl. It may not necessarily be applicable to this product.

NCBI GI #	62362414
NCBI GeneID	25
NCBI Accession #	NP_005148
UniProt Primary Accession #	P00519
UniProt Secondary Accession #	Q13869; Q13870; Q16133; Q17R61; Q45F09; A3KFJ3
UniProt Related Accession #	P00519
GenBank Nucleotide #	NM_005157
NCBI Official Full Name	tyrosine-protein kinase ABL1 isoform a
NCBI Official Synonym Full Names	ABL proto-oncogene 1, non-receptor tyrosine kinase
NCBI Official Symbol	ABL1
NCBI Official Synonym Symbols	ABL; JTK7; p150; c-ABL; v-abl; c-ABL1; bcr/abl
UniProt Protein Name	Tyrosine-protein kinase ABL1
UniProt Synonym Protein Names	Abelson murine leukemia viral oncogene homolog 1; Abelson tyrosine-protein kinase 1; Proto-oncogene c-Abl; p150
Protein Family	Probable protein
UniProt Gene Name	ABL1
UniProt Synonym Gene Names	ABL; JTK7
UniProt Entry Name	ABL1_HUMAN
NCBI Protein Information	tyrosine-protein kinase ABL1; Abelson tyrosine-protein kinase 1; bcr/c-abl oncogene protein; c-abl oncogene 1, receptor tyrosine kinase; proto-oncogene c-Abl; proto-oncogene tyrosine-protein kinase ABL1; v-abl Abelson murine leukemia viral oncogene homolo

UniProt Comments for c-Abl	Abl: an ubiquitously expressed and highly conserved proto-oncogenic tyrosine kinase. c-Abl protein is distributed in both the nucleus and the cytoplasm of cells. Negatively regulated by its SH3 domain, and deletion of the SH3 domain turns ABL1 into an oncogene. It has been implicated in regulation of cell proliferation, differentiation, apoptosis, cell adhesion and stress response. The Philadephia chromosome translocation t(9;22)(q34;q11) creates a Bcr-Abl fusion protein, responsible for 90% of chronic myelogenous leukemia (CML) and ~25% of acute lymphoblastic leukemia (ALL). Inhibitors: Gleevec (imatinib, Glivec), Dasatinib. Two alternatively-spliced isoforms have been described. Protein type: Protein kinase, tyrosine (non-receptor); Protein kinase, TK; Kinase, protein; Oncoprotein; EC 2.7.10.2; TK group; Abl family Chromosomal Location of Human Ortholog: 9q34.1 Cellular Component: nucleoplasm; nuclear membrane; extrinsic to internal side of plasma membrane; mitochondrion; perinuclear region of cytoplasm; cytoplasm; leading edge; nucleolus; nucleus; cytosol; actin cytoskeleton Molecular Function: protein C-terminus binding; actin monomer binding; magnesium ion binding; non-membrane spanning protein tyrosine kinase activity; protein kinase activity; actin filament binding; protein binding; DNA binding; syntaxin binding; protein-tyrosine kinase activity; manganese ion binding; mitogen-activated protein kinase binding; nicotinate-nucleotide adenylyltransferase activity; SH3 domain binding; ATP binding; receptor binding Biological Process: DNA damage induced protein phosphorylation; positive regulation of apoptosis; cerebellum morphogenesis; negative regulation of BMP signaling pathway; elevation of cytosolic calcium ion concentration; transitional one stage B cell differentiation; B cell receptor signaling pathway; regulation of endocytosis; negative regulation of mitotic cell cycle; cell cycle arrest; neuromuscular process controlling balance; positive regulation of oxidoreductase activity; spleen development; mitosis; positive regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of peptidyl-tyrosine phosphorylation; muscle cell differentiation; DNA damage response, signal transduction resulting in induction of apoptosis; positive regulation of osteoblast proliferation; negative regulation of ubiquitin-protein ligase activity; autophagy; response to oxidative stress; actin cytoskeleton organization and biogenesis; axon guidance; peptidyl-tyrosine phosphorylation; alpha-beta T cell differentiation; platelet-derived growth factor receptor signaling pathway; mitochondrial depolarization; positive regulation of mitotic cell cycle; Bergmann glial cell differentiation; regulation of transcription, DNA-dependent; collateral sprouting; cell differentiation; B cell proliferation during immune response; epidermal growth factor receptor signaling pathway; regulation of cell adhesion; cell migration; mismatch repair; thymus development; DNA damage response, signal transduction; B-1 B cell homeostasis; activated T cell proliferation; protein modification process; regulation of cell proliferation; microspike biogenesis; innate immune response; positive regulation of muscle cell differentiation; regulation of autophagy; positive regulation of release of sequestered calcium ion into cytosol; negative regulation of cell-cell adhesion; blood coagulation; response to DNA damage stimulus Disease: Leukemia, Chronic Myeloid
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