ABL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABL1, Polyclonal Antibody
Full Product Name	ABL1 (Tyrosine-protein kinase ABL1, ABLJTK7, Abelson murine leukemia viral oncogene homolog 1, Abelson tyrosine-protein kinase 1, Proto-oncogene c-Abl) (MaxLight 650)
Product Gene Name	anti-ABL1 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 MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ABL1. Has not been tested for cross-reactivity with ABL2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	128.343
OMIM	164690
3D Structure	ModBase 3D Structure for P42684
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within the amino acid range 220-249 of human ABL1, UniProt Accession #P00519.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ABL1 antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-ABL1 antibody	Western Blot (WB), FLISA
Application Notes for anti-ABL1 antibody	WB: 1:1,000 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ABL1 antibody	MBS6460912 is an antibody targeting ABL1. Also known as ABL1 (Tyrosine-protein kinase ABL1, ABLJTK7, Abelson murine leukemia viral oncogene homolog 1, Abelson tyrosine-protein kinase 1, Proto-oncogene c-Abl) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ABL1 antibody	1. Cao, C., et al., Biochemistry 42(35):10348-10353 (2003). 2. Cao, C., et al., J. Biol. Chem. 278(32):29667-29675 (2003). 3. Kruh, G.D., et al., Proc. Natl. Acad. Sci. USA 87(15):5802-5806 (1990). 4. Kruh, G.D., et al., Science 234(4783):1545-1548 (1986). 5. Bianchi, C., et al., FEBS Lett. 527 (1-3), 216-222 (2002).
Other Notes	Small volumes of anti-ABL1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABL1. It may not necessarily be applicable to this product.

NCBI GI #	6382062
NCBI GeneID	27
NCBI Accession #	NP_009298
UniProt Primary Accession #	P42684
UniProt Related Accession #	P42684
GenBank Nucleotide #	NP_009298.1
NCBI Official Full Name	tyrosine-protein kinase ABL2 isoform b
NCBI Official Synonym Full Names	ABL proto-oncogene 2, non-receptor tyrosine kinase
NCBI Official Symbol	ABL2
NCBI Official Synonym Symbols	ARG; ABLL
UniProt Protein Name	Abelson tyrosine-protein kinase 2
UniProt Synonym Protein Names	Abelson murine leukemia viral oncogene homolog 2; Abelson-related gene protein; Tyrosine-protein kinase ARG
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	ABL2
UniProt Synonym Gene Names	ABLL; ARG
UniProt Entry Name	ABL2_HUMAN
NCBI Protein Information	tyrosine-protein kinase ABL2
NCBI Summary for ABL1	This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinases. The protein is highly similar to the c-abl oncogene 1 protein, including the tyrosine kinase, SH2 and SH3 domains, and it plays a role in cytoskeletal rearrangements through its C-terminal F-actin- and microtubule-binding sequences. This gene is expressed in both normal and tumor cells, and is involved in translocation with the ets variant 6 gene in leukemia. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Nov 2009]

UniProt Comments for ABL1	Arg: a cytoplasmic tyrosine kinase of the Abl family. Expressed at the highest levels in mature B cells. Promotes catalase degradation in the oxidative stress response. Localizes to dynamic actin structures and may regulate cytoskeleton remodeling during cell differentiation, cell division and cell adhesion. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, tyrosine (non-receptor); EC 2.7.10.2; Protein kinase, TK; Kinase, protein; Oncoprotein; TK group; Abl family Chromosomal Location of Human Ortholog: 1q25.2 Cellular Component: extrinsic to internal side of plasma membrane; lamellipodium; dendritic spine; cytosol; actin cytoskeleton; phagocytic cup Molecular Function: actin monomer binding; actin filament binding; protein binding; manganese ion binding; protein-tyrosine kinase activity; magnesium ion binding; non-membrane spanning protein tyrosine kinase activity; ATP binding; receptor binding; protein kinase activity Biological Process: axon guidance; peptidyl-tyrosine phosphorylation; positive regulation of protein binding; alpha-beta T cell differentiation; cerebellum morphogenesis; platelet-derived growth factor receptor signaling pathway; signal transduction; regulation of apoptosis; Bergmann glial cell differentiation; elevation of cytosolic calcium ion concentration; regulation of endocytosis; visual learning; neuromuscular process controlling balance; positive regulation of oxidoreductase activity; regulation of cell adhesion; epidermal growth factor receptor signaling pathway; actin filament bundle formation; cell migration; positive regulation of I-kappaB kinase/NF-kappaB cascade; dendrite morphogenesis; protein modification process; substrate-bound cell migration, cell extension; phagocytosis; regulation of cell proliferation; negative regulation of Rho protein signal transduction; innate immune response; regulation of autophagy; negative regulation of cell-cell adhesion; neuron remodeling
Research Articles on ABL1	**1.** High expression of ABL2 suppresses apoptosis in gastric cancer cell lines
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