ABI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABI1, Polyclonal Antibody
Full Product Name	ABI1, NT (Abl Interactor 1, Abelson Interactor 1, Abi-1, Spectrin SH3 Domain-binding Protein 1, Eps8 SH3 Domain-binding Protein, Eps8-binding Protein, e3B1, Nap1-binding Protein, Nap1BP, Abl-binding Protein 4, AblBP4, SSH3BP1) (MaxLight 650)
Product Gene Name	anti-ABI1 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 ABI1.
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	53,912 Da
OMIM	603050
3D Structure	ModBase 3D Structure for Q8IZP0
Immunogen	Synthetic peptide selected from the N-terminal region of human ABI1 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ABI1 antibody	Antibodies; Spectrin
Applications Tested/Suitable for anti-ABI1 antibody	Western Blot (WB), FLISA
Application Notes for anti-ABI1 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ABI1 antibody	MBS6460890 is an antibody targeting ABI1. Also known as ABI1, NT (Abl Interactor 1, Abelson Interactor 1, Abi-1, Spectrin SH3 Domain-binding Protein 1, Eps8 SH3 Domain-binding Protein, Eps8-binding Protein, e3B1, Nap1-binding Protein, Nap1BP, Abl-binding Protein 4, AblBP4, SSH3BP1) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ABI1 antibody	1. Wang, C., et.al., Mol. Cancer Res. 5(10), 1031-1039 (2007). 2. Carabeo, R.A., et.al., Cell. Microbiol. 9(9), 2278-2288 (2007).
Other Notes	Small volumes of anti-ABI1 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 ABI1. It may not necessarily be applicable to this product.

NCBI GI #	61743942
NCBI GeneID	10006
NCBI Accession #	NP_005461.2
UniProt Primary Accession #	Q8IZP0
UniProt Secondary Accession #	O15147; O76049; O95060; Q5T2R3; Q5T2R4; Q5T2R6; Q5T2R7; A9Z1Y6; B3KX62; B4DQ58; H7BXI6
UniProt Related Accession #	Q8IZP0
GenBank Nucleotide #	NM_005470.3
NCBI Official Full Name	abl interactor 1 isoform a
NCBI Official Synonym Full Names	abl-interactor 1
NCBI Official Symbol	ABI1
NCBI Official Synonym Symbols	E3B1; ABI-1; ABLBP4; NAP1BP; SSH3BP; SSH3BP1
UniProt Protein Name	Abl interactor 1
UniProt Synonym Protein Names	Abelson interactor 1; Abi-1; Abl-binding protein 4; AblBP4; Eps8 SH3 domain-binding protein; Eps8-binding protein; Nap1-binding protein; Nap1BP; Spectrin SH3 domain-binding protein 1; e3B1
Protein Family	Abl interactor
UniProt Gene Name	ABI1
UniProt Synonym Gene Names	SSH3BP1; Abi-1; AblBP4; Eps8-binding protein; Nap1BP
UniProt Entry Name	ABI1_HUMAN
NCBI Protein Information	abl interactor 1; Abelson interactor 1; nap1 binding protein; abl-binding protein 4; interactor protein AblBP4; Abl-interactor protein 1 long; eps8 SH3 domain-binding protein; spectrin SH3 domain-binding protein 1
NCBI Summary for ABI1	This gene encodes a member of the Abelson-interactor family of adaptor proteins. These proteins facilitate signal transduction as components of several multiprotein complexes, and regulate actin polymerization and cytoskeletal remodeling through interactions with Abelson tyrosine kinases. The encoded protein plays a role in macropinocytosis as a component of the WAVE2 complex, and also forms a complex with EPS8 and SOS1 that mediates signal transduction from Ras to Rac. This gene may play a role in the progression of several malignancies including melanoma, colon cancer and breast cancer, and a t(10;11) chromosomal translocation involving this gene and the MLL gene has been associated with acute myeloid leukemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 14. [provided by RefSeq, Sep 2011]
UniProt Comments for ABI1	Abi-1: an SH3-containing adapter protein that regulates c-Abl-mediated phosphorylation of Mena. Binds the SH3 domains of epidermal growth factor receptor kinase substrate (EPS8) and of spectrin. May play a role in fusion of macropinocytic vesicles. Associated with congenital acute monocytic leukemia. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10p11.2 Cellular Component: postsynaptic membrane; growth cone; cytoskeleton; endoplasmic reticulum; lamellipodium; postsynaptic density; intracellular; nucleus; cytosol; cell junction; filopodium Molecular Function: protein binding; cytoskeletal protein binding; protein complex binding; protein tyrosine kinase activator activity Biological Process: negative regulation of cell proliferation; somitogenesis; peptidyl-tyrosine phosphorylation; actin polymerization and/or depolymerization; innate immune response; cell motility; vascular endothelial growth factor receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway

Research Articles on ABI1	**1.** Our data indicate that phosphorylated Abi1 contributes to the invasive properties of colorectal cancer.
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