

Recombinant Human ABI1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ABI1-1779H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ABI1 MS Standard C13 and N15-labeled recombinant protein (NP_001012770) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	51.8 kDa
AA Sequence	MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSL

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ASVAYQINALANNVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTNNKNT
 SRTHKIIAPANMERPVRYIRKPIDYTVLDDVGHGVKHGNNQPARTGTLRSRTNPPTQK
 PPSPPMSSGRGTLGRNTPYKTLEPVKPPTVPNDYMTSPARLGSQHSPGRTASLNQR
 PRTHSGSSGGSGSRENSGSSSIGIPIAVPTPSPTTIGPAAPGSAPGSQYGTMTQRIS
 RHNSTTSSTSSGGYRRTPSVTAQFSAQPHVNGGPLYSQNSISIAPPPPMPQLTPQI
 PLTGfVARVQENIADSPTPPPPPPPDDIPMFDDSPPPPPPPVVDYEDEEAADVQYND
 PYADGDPAPWAPKNYIEKVVAIYDYTKDKDDELSFMEGAIYVIKKNDGWWYEGVCNR
 VTGLFPGNYVESIMHYTDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ABI1](#) [abl-interactor 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [ABI1](#)

Synonyms ABI1; abl-interactor 1; spectrin SH3 domain binding protein 1, SSH3BP1; abl interactor 1; ABI 1; E3B1; 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; ABI-1; ABLBP4; NAP1BP; SSH3BP; SSH3BP1;

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Gene ID	10006
mRNA Refseq	NM_001012752
Protein Refseq	NP_001012770
MIM	603050
UniProt ID	Q8IZP0
SDS-PAGE	