

Product datasheet for TP506165

Abi1 (NM_007380) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse abl-interactor 1 (Abi1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206165 protein sequence Red =Cloning site Green =Tags(s)

MAELQMLLEEEIPSGKRALIESYQNLTRVADYCENNYIQATDKRKALEETKAYTTQSLASVAYQINALAN
NVLQLLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTTNKNTSRTHKIIAPANMERPVRYIRKP
IDYTVLDDVGHGVKHGNNQPARTGTLRTPPTQKPPSPVSGRGTGRNTPYKLEPVKPPVTPNDYMT
SPARLGSQHSPGRTASLNQRPRTHSGSSGSGSRENSGSSSIGIPIAVPTSPPTAGPAAPGAAPGSQYG
TMTRQISRHNSTTSSTSSGGYRRTPSVTAQFSAQPHVNGGPLYSQNSISVAPPPPPMPQLTPQIPLTGFV
ARVQENIADSPTPPPPPPDDIPMFDDSPPPPPPVYEDDEAAVVQYSDPYADGDPAWAPKNYIEKVV
AIYDYTKDKDELFSKEGAIYVIKKNDDGWFEGVCNRVTGLFPGNYVESIMHYTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	51.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_031406</u>
Locus ID:	11308



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UniProt ID: [Q8CBW3](#), [Q3TPY5](#), [Q3TJR5](#)

RefSeq Size: 3487

Cytogenetics: 2 15.18 cM

RefSeq ORF: 1431

Synonyms: *abi-1*; E3B1; NAP1; Ssh3bp1

Summary: May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. In vitro, at least isoform 2 and isoform 4 suppress the transforming activity of Abelson murine leukemia virus (v-Abl) after overexpression in fibroblasts. May play a role in regulation EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling. Together with EPS8 participates in transduction of signals from Ras to Rac. In vitro, a trimeric complex of ABI1, EPS8 and SOS1 exhibits Rac specific guanine nucleotide exchange factor (GEF) activity and ABI1 seems to act as an adapter in the complex. Regulates ABL1/c-Abl-mediated phosphorylation of ENAH. Recruits WASF1 to lamellipodia and there seems to regulate WASF1 protein level. In brain, seems to regulate the dendritic outgrowth and branching as well as to determine the shape and number of synaptic contacts of developing neurons.
[UniProtKB/Swiss-Prot Function]