

## Product datasheet for TP300637L

### ABI2 (NM\_005759) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human abl interactor 2 (ABI2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200637 protein sequence Red=Cloning site Green=Tags(s)

MAELQMLLEEEIPGGRRALFDSYTNLERVADYCENNYIQSADKQRALEETKAYTTQSLASVAYLINTLAN  
NVLQMLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTNNKNTSRTHKIIAPANLERPVRYIRKP  
IDYTILDDIGHGVKSTQNMKMGGLPRTTPPTQKPPSPMSGKGTGRHSPYRTLEPVRPPVNDYVPS  
PTRNMAPSQSPVRTASVNQRNRTYSSSGSSGSHPSRSSRENSGSGSVGVPIAVPTSPSPSVFPGHP  
VQFYSMNRPASRHTPPTIGGSLPYRRPPSITSQTSLQNMNGGPFYSQNPVSLAPPPSILQVTPQLPLM  
GFVARVQENISDTPPPPPPVEEPVFDESPPPPPPEDYEEEEAAVVEYSDPYAEEDPPWAPRSYLEKVVA  
IYDYTKDKEDELSFQEGAIIVIKKNDGWWYEGVMNGVTGLFPGNYVESIMHYSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	52.3 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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><a href="#">NP_005750</a></u>



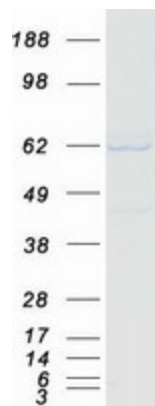
[View online »](#)

Locus ID:	10152
UniProt ID:	<a href="#">Q9NYB9</a> , <a href="#">Q9NYB9-2</a>
RefSeq Size:	6533
Cytogenetics:	2q33.2
RefSeq ORF:	1425
Synonyms:	ABI-2; ABI2B; AbIBP3; AIP-1; AIP1; argBP1; argBP1A; argBPIB; SSH3BP2

**Summary:** Regulator of actin cytoskeleton dynamics underlying cell motility and adhesion. Functions as a component of the WAVE complex, which activates actin nucleating machinery Arp2/3 to drive lamellipodia formation (PubMed:21107423). Acts as regulator and substrate of nonreceptor tyrosine kinases ABL1 and ABL2 involved in processes linked to cell growth and differentiation. Positively regulates ABL1-mediated phosphorylation of ENAH, which is required for proper polymerization of nucleated actin filaments at the leading edge (PubMed:7590236, PubMed:8649853, PubMed:10498863). Contributes to the regulation of actin assembly at the tips of neuron projections. In particular, controls dendritic spine morphogenesis and may promote dendritic spine specification toward large mushroom-type spines known as repositories of memory in the brain (By similarity). In hippocampal neurons, may mediate actin-dependent BDNF-NTRK2 early endocytic trafficking that triggers dendrite outgrowth (By similarity). Participates in ocular lens morphogenesis, likely by regulating lamellipodia-driven adherens junction formation at the epithelial cell-secondary lens fiber interface (By similarity). Also required for nascent adherens junction assembly in epithelial cells (PubMed:15572692). [UniProtKB/Swiss-Prot Function]

**Protein Pathways:** Regulation of actin cytoskeleton

### Product images:



Coomassie blue staining of purified ABI2 protein (Cat# [TP300637]). The protein was produced from HEK293T cells transfected with ABI2 cDNA clone (Cat# [RC200637]) using MegaTran 2.0 (Cat# [TT210002]).