

Product datasheet for TP300637

ABI2 (NM_005759) Human Recombinant Protein

Product data:

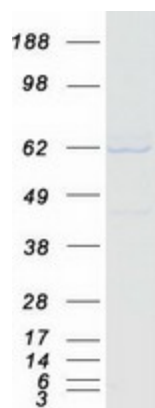
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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human abl interactor 2 (ABI2), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC200637 protein sequence Red =Cloning site Green =Tags(s) |
| | <p>MAELQMLLEEEIPGGRRALFDSYTNLERVADYCENNYIQSADKQRALEETKAYTTQSLASVAYLINTLAN NVLQMLDIQASQLRRMESSINHISQTVDIHKEKVARREIGILTNNKNTSRTHKIIAPANLERPVRYIRKP IDYTILDDIGHGVKSTQNMKMGGLPRTTPPTQKPPSPMSGKGTGRHSPYRTLEPVRPPVNDYVPS PTRNMAPSQSPVRTASVNQRNRTYSSSGSSGSHPSRSSRENSGSGSVGVPIAVPTSPSPVFP VQFYSMNRPASRHTPPTIGGSLPYRRPPSITSQTSLQNMNGGPFYSQNPVSLAPPPSILQVTPQLPLM GFVARVQENISDTPPPPPPVEEPVFDESPPPPPPEDYEEEEAAVVEYSDPYAEDPPWAPRSYLEKVVA IYDYTKDKEDELSFQEGAIIVIKKNDGWWYEGVMNGVTGLFPGNYVESIMHYSE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| 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>NP_005750</u> |



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|-------------------|--|
| Locus ID: | 10152 |
| UniProt ID: | Q9NYB9 , Q9NYB9-2 |
| RefSeq Size: | 6533 |
| Cytogenetics: | 2q33.2 |
| RefSeq ORF: | 1425 |
| Synonyms: | ABI-2; ABI2B; AbIBP3; AIP-1; AIP1; argBP1; argBP1A; argBP1B; 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]).