

**ABI2 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12566a****Specification**

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**ABI2 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q9NYB9](#)**ABI2 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 10152

**Other Names**

Abl interactor 2, Abelson interactor 2, Abi-2, Abl-binding protein 3, AblBP3, Arg-binding protein 1, ArgBP1, ABI2, ARGBPIA

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ABI2 Antibody (N-term) Blocking peptide - Protein Information****Name** ABI2 {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:24011}**Function**

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:<a href="http://www.uniprot.org/citations/21107423" target="\_blank">21107423</a>). Acts as a 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:<a href="http://www.uniprot.org/citations/7590236" target="\_blank">7590236</a>, PubMed:<a href="http://www.uniprot.org/citations/8649853" target="\_blank">8649853</a>, PubMed:<a href="http://www.uniprot.org/citations/10498863" target="\_blank">10498863</a>). 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: <a href="http://www.uniprot.org/citations/15572692" target="\_blank">15572692</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Widely expressed. Abundant in testes, ovary, thymus, and colon, with lower but detectable levels in prostate, peripheral blood leukocytes, and spleen.

**ABI2 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**ABI2 Antibody (N-term) Blocking peptide - Images****ABI2 Antibody (N-term) Blocking peptide - Background**

ABI2 may act in regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May be involved in cytoskeletal reorganization. Regulates ABL1/c-Abl-mediated phosphorylation of MENA.

**ABI2 Antibody (N-term) Blocking peptide - References**

Ryu, J.R., et al. Mol. Cell. Biol. 29(7):1735-1748(2009) Kano, S., et al. Cancer Res. 68(14):5572-5580(2008) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Li, Y., et al. J. Cell. Sci. 120 (PT 8), 1436-1446 (2007) O'Donnell, C.J., et al. BMC Med. Genet. 8 SUPPL 1, S4 (2007) :