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ABI2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12566A

Specification

ABI2 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9NYB9
Other Accession	P62484, NP_005750.4
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**55663**
Antigen Region	**1-30**

ABI2 Antibody (N-term) - 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

Target/Specificity
This ABI2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human ABI2.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ABI2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ABI2 Antibody (N-term) - 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:21107423). 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: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).

Cellular Location
Cytoplasm. Nucleus

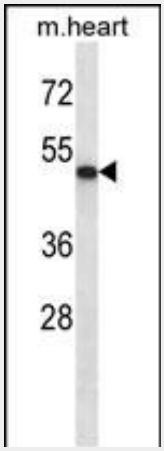
Tissue Location
Widely expressed. Abundant in testes, ovary, thymus, and colon, with lower but detectable levels in prostate, peripheral blood leukocytes, and spleen.

ABI2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ABI2 Antibody (N-term) - Images



ABI2 Antibody (N-term) (Cat. #AP12566a) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the ABI2 antibody detected the ABI2 protein (arrow).

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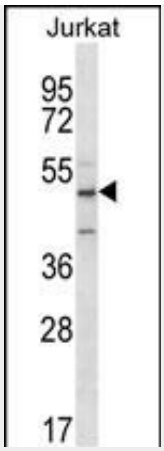
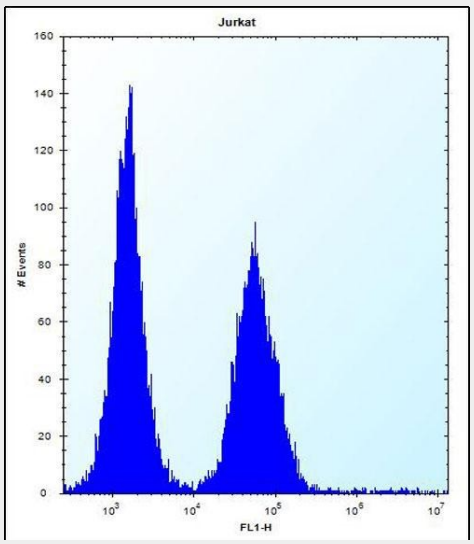


ABI2 Antibody (N-term) (Cat. #AP12566) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the ABI2 antibody detected the ABI2 protein (arrow).



ABI2 Antibody (N-term) (Cat. #AP12566a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

ABI2 Antibody (N-term) - 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) - 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)
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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) :