

# Anti-ABI2 Rabbit Monoclonal Antibody

Catalog # ABO15946

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC                                                                                                            |
| <b>Primary Accession</b> | <a href="#">Q9NYB9</a>                                                                                                      |
| <b>Host</b>              | Rabbit                                                                                                                      |
| <b>Isotype</b>           | IgG                                                                                                                         |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                           |
| <b>Clonality</b>         | Monoclonal                                                                                                                  |
| <b>Format</b>            | Liquid                                                                                                                      |
| <b>Description</b>       | Anti-ABI2 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                         | 10152                                                                                                                                                                                                                          |
| <b>Other Names</b>                     | Abl interactor 2 {ECO:0000303   Ref.16}, Abelson interactor 2 {ECO:0000303   Ref.16}, Abi-2, Abl-binding protein 3, AbIBP3, Arg-binding protein 1, ArgBP1, ABI2 {ECO:0000303   PubMed:28397838, ECO:0000312   HGNC:HGNC:24011} |
| <b>Calculated MW</b>                   | 55663                                                                                                                                                                                                                          |
| <b>Application Details</b>             | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200                                                                                                                                                                         |
| <b>Source</b>                          | Eukaryota                                                                                                                                                                                                                      |
| <b>Contents</b>                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                            |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: 25A25<br>A synthesized peptide derived from human ABI2                                                                                                                                                                  |
| <b>Purification</b>                    | Affinity-chromatography                                                                                                                                                                                                        |
| <b>Storage</b>                         | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                     |

## Protein Information

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|-----------------|-----------------------------------------------------------------------|
| <b>Name</b>     | ABI2 {ECO:0000303   PubMed:28397838, ECO:0000312   HGNC:HGNC:24011}   |
| <b>Function</b> | 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:[10498863](#), PubMed:[7590236](#), PubMed:[8649853](#)). 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**

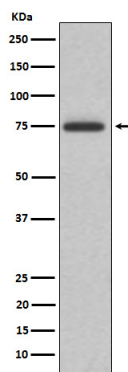
Cytoplasm. Nucleus

**Tissue Location**

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

## Images

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Western blot analysis of ABI2 expression in K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.