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ABI1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8535a

Specification

ABI1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q8IZP0

ABI1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10006

Other Names
Abl interactor 1, Abelson interactor 1, Abi-1, Abl-binding protein 4, AblBP4, Eps8 SH3 domain-binding protein, Eps8-binding protein, Nap1-binding protein, Nap1BP, Spectrin SH3 domain-binding protein 1, e3B1, ABI1, SSH3BP1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8535a was selected from the N-term region of human ABI1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ABI1 Antibody (N-term) Blocking Peptide - Protein Information

ABI1 Antibody (N-term) Blocking Peptide - Background

ABI1 has been found to form a complex with EPS8 and SOS1, and is thought to be involved in the transduction of signals from Ras to Rac. In addition, this protein may play a role in the regulation of EGF-induced Erk pathway activation as well as cytoskeletal reorganization and EGFR signaling.

ABI1 Antibody (N-term) Blocking Peptide - References

Wang,C., et.al., Mol. Cancer Res. 5 (10), 1031-1039 (2007)Carabeo,R.A., et.al., Cell. Microbiol. 9 (9), 2278-2288 (2007)

Name ABI1 (HGNC:11320)

Synonyms SSH3BP1

Function
May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling. Together with EPS8 participates in transduction of signals from Ras to Rac. In vitro, a trimeric complex of ABI1, EPS8 and SOS1 exhibits Rac specific guanine nucleotide exchange factor (GEF) activity and ABI1 seems to act as an adapter in the complex. Regulates ABL1/c-Abl- mediated phosphorylation of ENAH. Recruits WASF1 to lamellipodia and there seems to regulate WASF1 protein level. In brain, seems to regulate the dendritic outgrowth and branching as well as to determine the shape and number of synaptic contacts of developing neurons.

Cellular Location
Cytoplasm. Nucleus. Cell projection, lamellipodium. Cell projection, filopodium. Cell projection, growth cone Cell junction, synapse, postsynaptic density. Cytoplasm, cytoskeleton. Note=Localized to protruding lamellipodia and filopodia tips. Also localized to neuronal growth cones and synaptosomes. May shuttle from the postsynaptic densities to the nucleus (By similarity).

Tissue Location
Widely expressed, with highest expression in brain.

ABI1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides