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Anti-ABI1 Antibody

Catalog # AP50953

Product Information

Application	WB, IF/IC
Primary Accession	Q8IZP0
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55081

Additional Information

Gene ID	10006
Other Names	SSH3BP1; 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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ABI1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

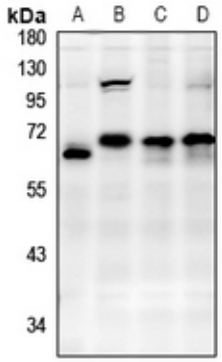
Name	ABI1 (HGNC:11320)
Synonyms	SSH3BP1
Function	May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling. 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 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.

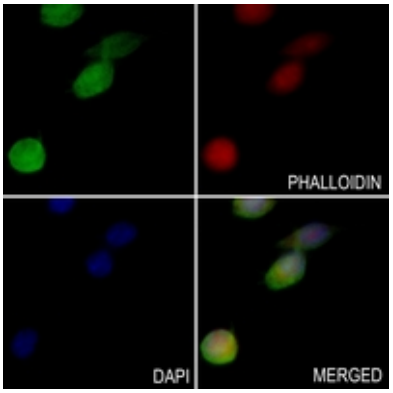
References

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Ziemnicka-Kotula D.,et al.J. Biol. Chem. 273:13681-13692(1998).
Yamamoto A.,et al.Gene 271:159-169(2001).
Gu Y.,et al.FEBS Lett. 540:195-200(2003).
Wilson L.A.,et al.Submitted (APR-1997) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of ABI1 expression in rat brain (A), U87MG (B), Myla2059 (C), K562 (D) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 65 kD)



Immunofluorescent analysis of ABI1 staining in VB2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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