10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Abi-1 Polyclonal Antibody

Catalog # AP68248

Product Information

Application	WB, E
Primary Accession	Q8IZP0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55081

Additional Information

Gene ID	10006
Other Names	ABI1; 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
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

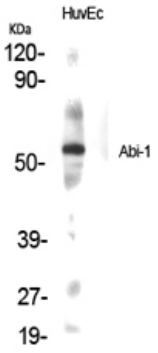
Name	ABI1 (HGNC:11320)
Synonyms	SSH3BP1
Function	May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling.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

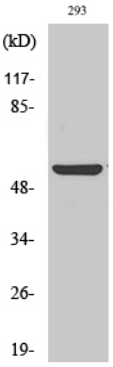
Background

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.

Images



Western Blot analysis of various cells using Abi-1 Polyclonal Antibody



Western Blot analysis of 293 cells using Abi-1 Polyclonal Antibody