

Anti-ABI1 Antibody

Catalog # ABO10496

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q8IZP0
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Abl interactor 1(ABI1) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	55081
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Immunocytochemistry , 0.5-1 μ g/ml, Human, - Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm . Nucleus . Cell projection, lamellipodium . Cell projection, filopodium . Cell projection, growth cone . Cell junction, synapse, postsynaptic cell membrane, postsynaptic density . Cytoplasm, cytoskeleton . 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 Specificity	Widely expressed, with highest expression in brain. .
Source	Eukaryota
Protein Name	Abl interactor 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ABI1 (483-494aa WYEGVCNRVTGL), different from the related rat and mouse sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

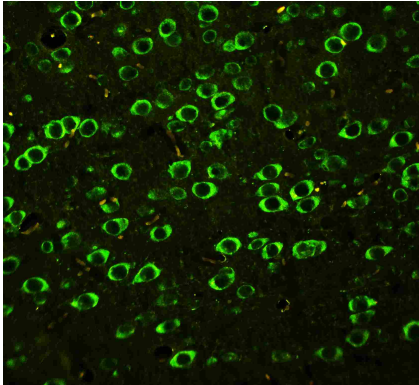
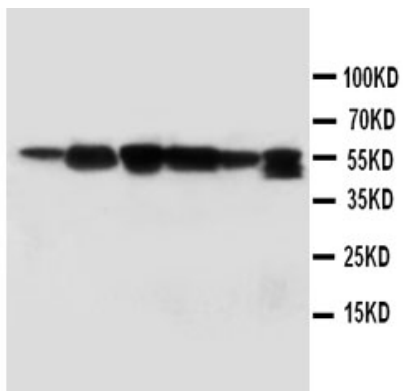
Name	ABI1 (HGNC:11320)
Synonyms	SSH3BP1
Function	May act in negative regulation of cell growth and transformation by interacting with nonreceptor tyrosine kinases ABL1 and/or ABL2. May play a role in regulation of EGF-induced Erk pathway activation. Involved in cytoskeletal reorganization and EGFR signaling.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

ABI1 is a human homolog of mouse Abl-interactor-1(Abi1), mapped on 10p11.2. ABI1 participates in the transduction of signals from Ras to Rac by regulating Rac-specific guanine nucleotide exchange factor(GEF) activities. ABI1 dramatically promoted ABL1-mediated tyrosine phosphorylation of MENA, but not of other substrates. Abi-1 regulates c-Abl-mediated phosphorylation of Mena by interacting with both proteins. ABI1 plays a role in the leukemogenesis by translocating to MLL.

Images

Anti-ABI1 antibody, ABO10496, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: MM231 Cell Lysate
Lane 4: HELA Cell Lysate
Lane 5: SMMC Cell Lysate
Lane 6: JURKAT Cell Lysate



Anti-ABI1 antibody, ABO10496, IHC(P)IHC(P): Rat Brain Tissue

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