

Anti-ABI1 Antibody
Catalog # ABO10496**Specification**

Anti-ABI1 Antibody - 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.

Anti-ABI1 Antibody - 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 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Western blot, 0.1-0.5 µg/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. .

Protein Name

Abl interactor 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human ABI1 (483-494aa WYEGVCNVRTGL), 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 receipt, 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.

Anti-ABI1 Antibody - 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.

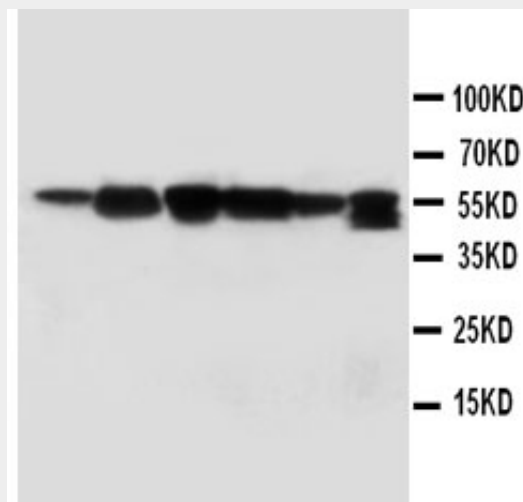
Anti-ABI1 Antibody - Protocols

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

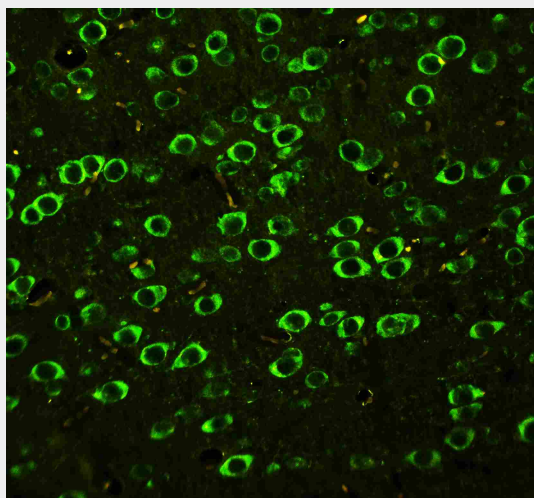
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ABI1 Antibody - 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

Anti-ABI1 Antibody - 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.