Product Name: Abi-1 Rabbit Polyclonal Antibody
Catalog #: APRab06448
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight	55kDa

Antigen Information

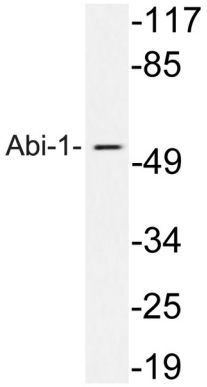
Gene Name	ABI1
Alternative Names	ABI1; SSH3BP1; Abl interactor 1; Abelson interactor 1; Abi-1; Abl-binding protein 4; AblBP4; Eps8 SH3 domain-binding protein; Eps8-binding protein; Nap1-binding protein; Nap1BP; Spectrin SH3 domain-binding protein 1; e3B1
Gene ID	10006.0
SwissProt ID	Q8IZP0
Immunogen	The antiserum was produced against synthesized peptide derived from human Abi-1. AA range:152-201

Background

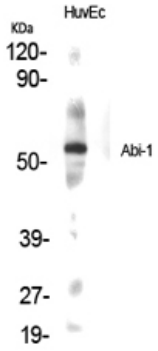
This gene encodes a member of the Abelson-interactor family of adaptor proteins. These proteins facilitate signal transduction as components of several multiprotein complexes, and regulate actin polymerization and cytoskeletal remodeling through interactions with Abelson tyrosine kinases. The encoded protein plays a role in macropinocytosis as a component of the WAVE2 complex, and also forms a complex with EPS8 and SOS1 that mediates signal transduction from Ras to Rac. This gene may play a role in the progression of several malignancies including melanoma, colon cancer and breast cancer, and a t(10;11) chromosomal translocation involving this gene and the MLL gene has been associated with acute myeloid leukemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 14. [provided by RefSeqalternative products:Additional isoforms seem to exist,disease:A chromosomal aberration involving ABI1 is a cause of acute leukemias. Translocation t(10;11)(p11.2;q23) with MLL. ABI1 isoform 2 was found to be present in acute leukemia MLL-ABI1 fusion transcript.,domain:The t-SNARE coiled-coil homology domain is necessary and sufficient for interaction with STX1A.,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 MENA. Recruits WASF1 to lamellipodia and there seems to regulate WASF1 protein level.,PTM:In vitro substrate for v-Abl (By similarity). Phosphorylated on tyrosine residues after serum stimulation or induction by v-Abl.,similarity:Belongs to the ABI family.,similarity:Contains 1 SH3 domain.,similarity:Contains 1 t-SNARE coiled-coil homology domain.,subcellular location:Localized to protruding lamellipodia and filopodia tips. Also localized to neuronal growth cones and synaptosomes.,subunit:Interacts with ABL1, MENA, STX1A, SNAP25, VAMP2, EPS8, and through its N-terminus with WASF1. Part of a complex consisting of ABI1, STX1A and SNAP25. Part of a complex consisting of ABI1, EPS8 and SOS1 (By similarity). Interacts with SOS1, SOS2, GRB2, SPTA1 and the first SH3 domain of NCK1. Isoform 6 does not interact with NCK1. Component of the WAVE2 complex composed of ABI1, CYFIP1/SRA1, NCKAP1/NAP1 and WASF2/WAVE2.,tissue specificity:Widely expressed, with highest expression in brain.,

Research Area

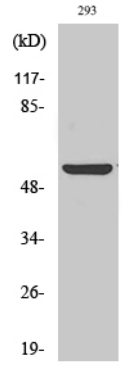
Image Data



Western blot analysis of lysates from 293 cells treated with TNF, using Abi-1 antibody.



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



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