

Rabbit Abi 1 Polyclonal Antibody | anti-Abi1 antibody

Phospho-Abi 1 (Tyr213) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31442	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

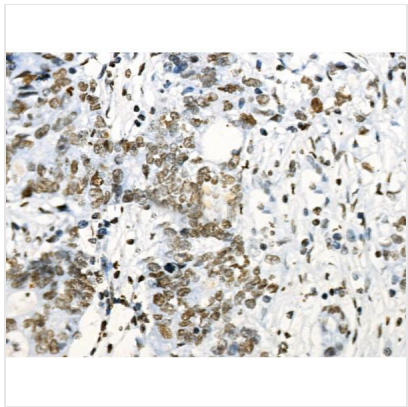
Abi 1; Polyclonal Antibody; Phospho-Abi 1 (Tyr213) Antibody; Abelson interactor 1; Abi-1; Abi1; ABI1_HUMAN; Abl binding protein 4; Abl interactor 1; Abl interactor protein 1; Abl-binding protein 4; AbIBP4; e3B1; Eps8 binding protein; Eps8 SH3 domain binding protein; Eps8 SH3 domain-binding protein; Eps8-binding protein; Hssh3bp1; Interactor protein AbIBP4; NAP1; Nap1 binding protein; Nap1-binding protein; Nap1BP; Spectrin SH3 domain binding protein 1; Spectrin SH3 domain-binding protein 1; SSH3BP; anti-Abi1 antibody

PRODUCT SPECIFICATIONS

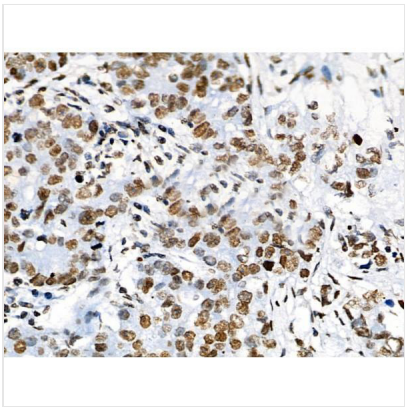
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Abi 1 (Tyr213) Antibody detects endogenous levels of Abi 1 only when phosphorylated at Tyr213. Tissue Specificity: Widely expressed, with highest expression in brain.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Abi1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Abi 1 around the phosphorylation site of Tyr213.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated on tyrosine residues after serum stimulation or induction by v-Abl. Seems to be phosphorylated at Tyr-53 by ABL1, required for nuclear but not for synaptic localization.
Subunit Structure	Interacts with ABL1, ENAH, 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 (NCKAP1/HEM1 in hematopoietic cells) and WASF2/WAVE2. Interacts (via SH3 domain) with SHANK2 and SHANK3, but not SHANK1; the interaction is direct. Interacts with the heterodimer MYC:MAX; the interaction may enhance MYC:MAX transcriptional activity. Interacts with FNBP1L (via the SH3 domain), WASF2, and CDC42, but only in the presence of FNBP1L. (Microbial infection) Interacts with human cytomegalovirus/HHV-5 protein UL135.

Similarity	The t-SNARE coiled-coil homology domain is necessary and sufficient for interaction with STX1A.Belongs to the ABI family.
Subcellular Location	Cytoplasm. Nucleus. Cell projection>Lamellipodium. Cell projection>Filopodium. Cell projection>Growth cone. Cell junction>Synapse>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).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

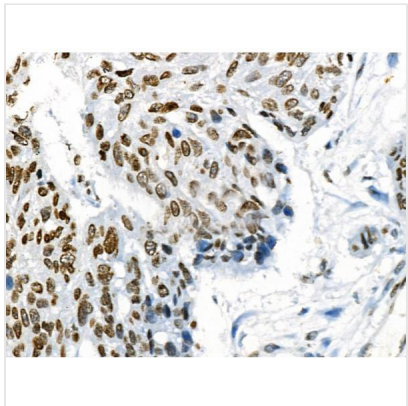
IMAGES



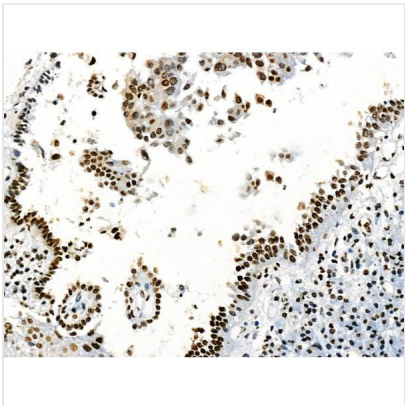
IHC (Immunohistochemistry)
At 1/100 staining Human gastric cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



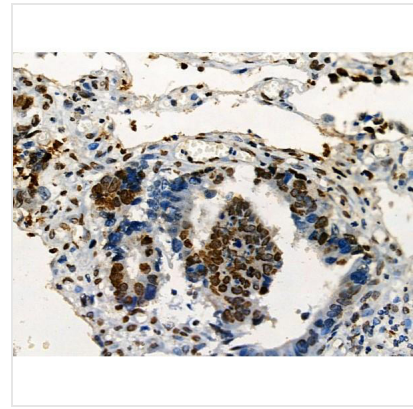
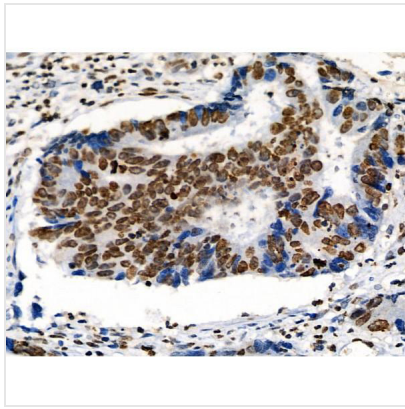
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IHC (Immunohistochemistry)
At 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)

Staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Abi1 antibody

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50400546
NCBI GeneID	10006
UniProt Accession #	Q8IZP0; O15147; O76049; O95060; Q5T2R3; Q5T2R4; Q5T2R6; Q5T2R7; A9Z1Y6; B3KX62; B4DQ58; H7BXI6
Molecular Weight	53,912 Da
NCBI Official Full Name	Abl interactor 1
NCBI Official Synonym Full Names	abl-interactor 1
NCBI Official Symbol	ABI1
NCBI Official Synonym Symbols	E3B1; ABI-1; ABLBP4; NAP1BP; SSH3BP; SSH3BP1
NCBI Protein Information	abl interactor 1; Abelson interactor 1; nap1 binding protein; abl-binding protein 4; interactor protein AbIBP4; Abl-interactor protein 1 long; eps8 SH3 domain-binding protein; spectrin SH3 domain-binding protein 1
UniProt Protein Name	Abl interactor 1
UniProt Gene Name	ABI1
UniProt Synonym Gene Names	SSH3BP1; Abi-1; AbIBP4; Eps8-binding protein; Nap1BP
UniProt Entry Name	ABI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.