

Rabbit ABL1/2 Polyclonal Antibody | anti-ABL1/2 antibody

Phospho-ABL1/2 (Tyr70/Tyr116) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329705	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (100%)	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ABL1/2; Polyclonal Antibody; Phospho-ABL1/2 (Tyr70/Tyr116) Antibody; Abelson murine leukemia viral oncogene homolog 1; Abelson tyrosine protein kinase 1; Abl 1; ABL; ABL proto oncogene 1 non receptor tyrosine kinase; ABL1; ABL1_HUMAN; bcr/abl; bcr/c abl oncogene protein; c ABL; c abl oncogene 1 non receptor tyrosine kinase; c abl oncogene 1 receptor tyrosine kinase; c ABL1; JTK7; p150; Proto oncogene tyrosine protein kinase ABL1; Proto-oncogene c-Abl; Tyrosine-protein kinase ABL1; v abl Abelson murine leukemia viral oncogene homolog 1; v abl; Abelson murine leukemia viral oncogene homolog 2; Abelson related gene protein; Abelson tyrosine-protein kinase 2; Abelson-related gene protein; ABL2; ABL2_HUMAN; ABLL; ARG; Tyrosine kinase ARG; Tyrosine protein kinase ABL2; Tyrosine-protein kinase ARG; v abl Abelson murine leukemia viral oncogene homolog 2; anti-ABL1/2 antibody

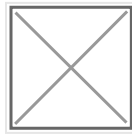
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-ABL1/2 (Tyr70/Tyr116) Antibody detects endogenous levels of ABL1/2 only Phospho-ABL1/2 (Tyr70/Tyr116) Antibody detects endogenous levels of ABL1 when phosphorylated at Tyr70 or ABL2 when phosphorylated at Tyr116. Tissue Specificity: Widely expressed.
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-ABL1/2 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ABL1/2 around the phosphorylation site of Tyr70/Tyr116.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Tyr-261 by ABL1 in response to oxidative stress. Phosphorylated by PDGFRB (By similarity).Polyubiquitinated. Polyubiquitination of ABL2 leads to degradation.
Subunit Structure	Interacts with PSMA7. Interacts with CTTN. Found in a complex with ABL1, ABL2, CRK and UNC119; leading to the inhibition of CRK phosphorylation by ABL kinases.
Similarity	Contains two distinct classes of F-actin-binding domains. Although both can bind F-actin, the 2 are required to bundle actin filaments (By similarity).Belongs to the protein kinase superfamily. Tyr protein kinase family. ABL subfamily.
Subcellular Location	Cytoplasm>Cytoskeleton.

Preparation and Storage

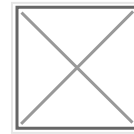
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of ABL1/2 (Phospho-Tyr70/Tyr116) using EGF treated A431 whole cell lysates. -/+ means absence or presence of N peptide (non-phospho peptide) and P peptide (phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-ABL1/2 antibody

Non-receptor tyrosine-protein kinase that plays an ABL1-overlapping role in key processes linked to cell growth and survival such as cytoskeleton remodeling in response to extracellular stimuli, cell motility and adhesion and receptor endocytosis. Coordinates actin remodeling through tyrosine phosphorylation of proteins controlling cytoskeleton dynamics like MYH10 (involved in movement); CTTN (involved in signaling); or TUBA1 and TUBB (microtubule subunits). Binds directly F-actin and regulates actin cytoskeletal structure through its F-actin-bundling activity. Involved in the regulation of cell adhesion and motility through phosphorylation of key regulators of these processes such as CRK, CRKL, DOK1 or ARHGAP35. Adhesion-dependent phosphorylation of ARHGAP35 promotes its association with RASA1, resulting in recruitment of ARHGAP35 to the cell periphery where it inhibits RHO. Phosphorylates multiple receptor tyrosine kinases like PDGFRB and other substrates which are involved in endocytosis regulation such as RIN1. In brain, may regulate neurotransmission by phosphorylating proteins at the synapse. ABL2 acts also as a regulator of multiple pathological signaling cascades during infection. Pathogens can hijack ABL2 kinase signaling to reorganize the host actin cytoskeleton for multiple purposes, like facilitating intracellular movement and host cell exit. Finally, functions as its own regulator through autocatalytic activity as well as through phosphorylation of its inhibitor, ABL1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62362414
NCBI GeneID	25
NCBI Accession #	NP_005148.2
NCBI GenBank Nucleotide #	NM_005157.4
UniProt Accession #	P00519; P42684
Molecular Weight	122,873 Da
NCBI Official Full Name	tyrosine-protein kinase ABL1 isoform a
NCBI Official Synonym Full Names	c-abl oncogene 1, non-receptor tyrosine kinase
NCBI Official Symbol	ABL1
NCBI Official Synonym Symbols	ABL; JTK7; p150; c-ABL; v-abl; bcr/abl
NCBI Protein Information	tyrosine-protein kinase ABL1; proto-oncogene c-Abl; bcr/c-abl oncogene protein; Abelson tyrosine-protein kinase 1; c-abl oncogene 1, receptor tyrosine kinase; proto-oncogene tyrosine-protein kinase ABL1; v-abl Abelson murine leukemia viral oncogene homolog
UniProt Protein Name	Tyrosine-protein kinase ABL1
UniProt Gene Name	ABL1
UniProt Synonym Gene Names	ABL; JTK7
UniProt Entry Name	ABL1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/abl1-2-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-western-blot-elisa/329705>