

Mouse anti-Human, mouse ABL2 Monoclonal Antibody | anti-ABL2 antibody

ABL2 Antibody

CATALOG # AAA283520	HOST Mouse	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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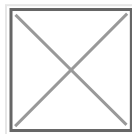
PRODUCT SYNONYMS

ABL2; Monoclonal Antibody; ABL2 Antibody; Abelson tyrosine-protein kinase 2; Abelson murine leukemia viral oncogene homolog 2; Abelson-related gene protein; Tyrosine-protein kinase ARG; ABL; ARG; anti-ABL2 antibody

PRODUCT SPECIFICATIONS

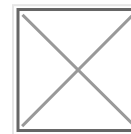
Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1442CT175.30.33
Specificity	This ABL2 antibody is generated from a mouse immunized with a recombinant protein.
Purity/Purification	Purified Mouse Monoclonal Antibody (Mab)
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	1064
Applicable Applications for anti-ABL2 antibody	ELISA, WB (Western Blot)
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

All lanes : Anti-ABL2 Antibody at 1:2000 dilution
Lane 1: A431 whole cell lysates
Lane 2: Hela whole cell lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 128 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

Anti-ABL2 Antibody at 1:500 dilution + NIH/3T3 whole cell lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 128 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-ABL2 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.
References	Kruh G.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5802-5806(1990). Bianchi C.,et al.J. Cell. Biochem. 105:1219-1227(2008). Ota T.,et al.Nat. Genet. 36:40-45(2004). Bechtel S.,et al.BMC Genomics 8:399-399(2007). Gregory S.G.,et al.Nature 441:315-321(2006).

NCBI AND UNIPROT INFORMATION

NCBI GI #	209862772
NCBI GeneID	27
NCBI Accession #	NP_001129472.1
NCBI GenBank Nucleotide #	NM_001136000.2
UniProt Accession #	P42684; Q5T0X6; Q5W0C5; Q6NZY6; Q7Z301; A0M8X0; B7UEF2; B7UEF3; B7UEF4; B7UEF5
Molecular Weight	128343
NCBI Official Full Name	Abelson tyrosine-protein kinase 2 isoform d
NCBI Official Synonym Full Names	ABL proto-oncogene 2, non-receptor tyrosine kinase
NCBI Official Symbol	ABL2
NCBI Official Synonym Symbols	ARG; ABLL
NCBI Protein Information	Abelson tyrosine-protein kinase 2
UniProt Protein Name	Abelson tyrosine-protein kinase 2
UniProt Gene Name	ABL2
UniProt Synonym Gene Names	ABLL; ARG
UniProt Entry Name	ABL2_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.