

Anti-ABL1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

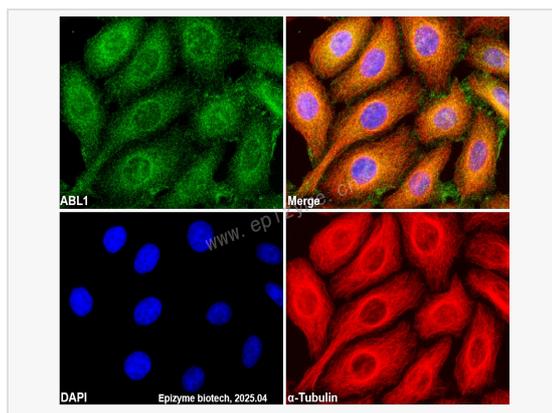
Catalog # R015093

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:2,000~1:10,000; IHC-P 1:200~1:1,000; IHC-P 1:200~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	69B20K00
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human ABL1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ABL1 Rabbit mAb [69B20K00] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 123 kDa; Observed MW: 123 kDa
Uniprot ID	P00519
Gene ID	25
Background	This gene is a protooncogene that encodes a protein tyrosine kinase involved in a variety of cellular processes, including cell division, adhesion, differentiation, and response to stress. The activity of the protein is negatively regulated by its SH3 domain, whereby deletion of the region encoding this domain results in an oncogene. The ubiquitously expressed protein has DNA-binding activity that is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function. This gene has been found fused to a variety of translocation partner genes in various leukemias, most notably the t(9;22) translocation that results in a fusion with the 5' end of the breakpoint cluster region gene (BCR; MIM:151410). Alternative splicing of this gene results in two transcript variants, which contain alternative first exons that are spliced to the remaining common exons. [provided by RefSeq, Aug 2014]
Cellular Location	Cytoplasm > cytoskeleton. Nucleus. Sequestered into the cytoplasm through interaction with 14-3-3 proteins and Nucleus membrane. The myristoylated c-ABL protein is reported to be nuclear.



Immunofluorescence - Anti-ABL1 Rabbit mAb [69B20K00]

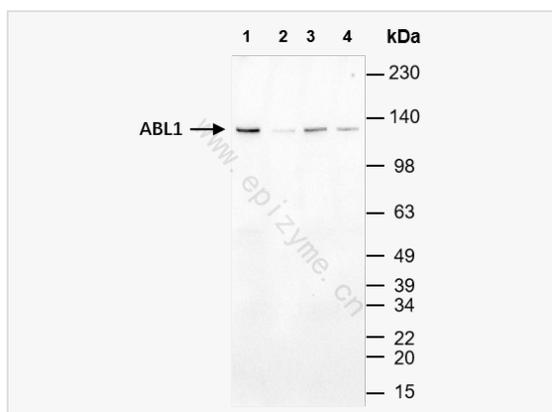
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R015093 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-ABL1 Rabbit mAb [69B20K00]

All lanes: R015093 at 1:5,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

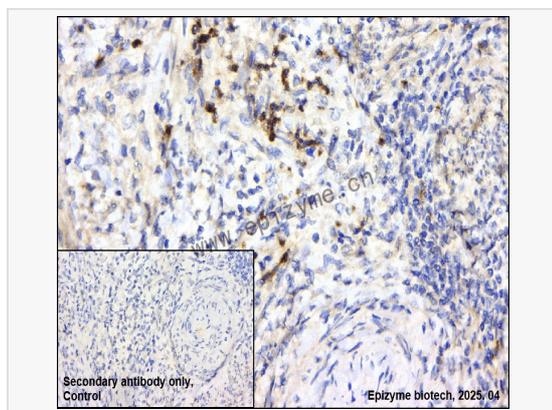
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 123 kDa

Observed band size: 123 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-ABL1 Rabbit mAb [69B20K00]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015093 at 1:600 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.