

ABL1 Monoclonal antibody, PBS Only

Catalog Number: 68254-1-PBS

Basic Information

Catalog Number: 68254-1-PBS	GenBank Accession Number: NM_005157	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 25	CloneNo.: 1E7A5
Source: Mouse	Full Name: c-abl oncogene 1, receptor tyrosine kinase	
Isotype: IgG2b	Calculated MW: 123 kDa	
Immunogen Catalog Number: AG26152	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human

Background Information

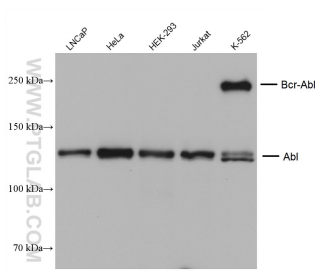
ABL1, also named as ABL, JTK7, c-ABL and p150, belongs to the protein kinase superfamily, Tyr protein kinase family and ABL subfamily. ABL1 regulates cytoskeleton remodeling during cell differentiation, cell division and cell adhesion. ABL1 localizes to dynamic actin structures, and phosphorylates CRK and CRKL, DOK1, and other proteins controlling cytoskeleton dynamics. It regulates DNA repair potentially by activating the proapoptotic pathway when the DNA damage is too severe to be repaired. ABL1 catalyze the reaction: ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. A chromosomal aberration involving ABL1 is a cause of chronic myeloid leukemia (CML) [MIM:608232]. Translocation t(9;22)(q34;q11) with BCR. The translocation produces a BCR-ABL found also in acute myeloid leukemia (AML) and acute lymphoblastic leukemia (ALL). The antibody is specific to ABL1.

Storage

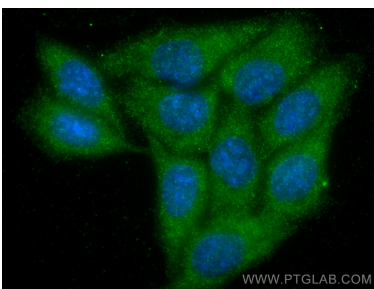
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

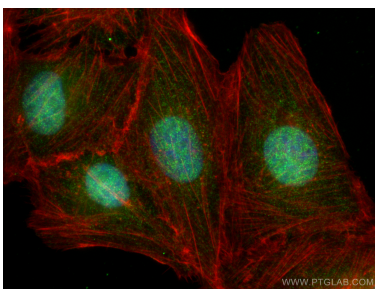
Selected Validation Data



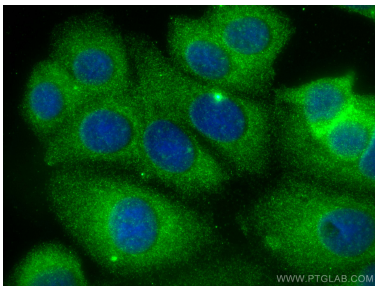
Various lysates were subjected to SDS PAGE followed by western blot with 68254-1-Ig (ABL1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68254-1-PBS in a different storage buffer formulation.



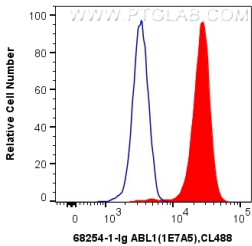
Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using ABL1 antibody (68254-1-Ig, Clone: 1E7A5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68254-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using ABL1 antibody (68254-1-Ig, Clone: 1E7A5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68254-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ABL1 antibody (68254-1-Ig, Clone: 1E7A5) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68254-1-PBS in a different storage buffer formulation.



1X10⁶ K-562 cells were intracellularly stained with 0.4 ug Anti-Human ABL1 (68254-1-Ig, Clone:1E7A5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 68254-1-PBS in a different storage buffer