

Datasheet for ABIN7265966
anti-ABL1 antibody (pTyr412)



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4 Images

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | ABL1 |
| Binding Specificity: | pTyr412 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ABL1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

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|-------------------|---|
| Purpose: | Phospho-ABL1-Y412 Rabbit pAb |
| Immunogen: | A phospho synthetic peptide corresponding to residues surrounding Y412 of human ABL1. |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Phosphorylated Antibodies |
| Purification: | Affinity purification |

Target Details

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|-------------------|--|
| Target: | ABL1 |
| Alternative Name: | ABL1 (ABL1 Products) |

Target Details

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.,ABL,JTK7,p150,c-ABL,v-abl,CHDSKM,c-ABL1,ABL1,c-Abl,bcr/abl,Apoptosis,Cancer,Cell Biology & Developmental Biology,Cell Cycle,Cytoskeleton_Microtubules,Epigenetics & Nuclear Signaling,ErbB-HER Signaling Pathway,G1/S Checkpoint,G2/M DNA Damage Checkpoint,Immunology & Inflammation,Kinase,Kinase_Tyrosine kinases,MAPK-JNK Signaling Pathway,Protein phosphorylation,Signal Transduction,TGF-b-Smad Signaling Pathway,ABL1

| | |
|-------------------|--|
| Molecular Weight: | 123kDa |
| Gene ID: | 25 |
| UniProt: | P00519 |
| Pathways: | Apoptosis , Regulation of Muscle Cell Differentiation , Platelet-derived growth Factor Receptor Signaling , Lipid Metabolism |

Application Details

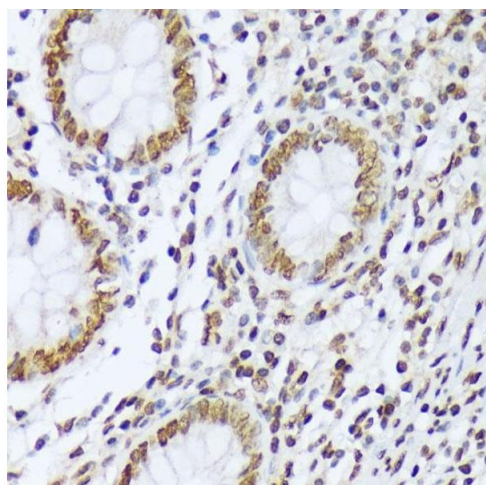
| | |
|--------------------|------------------------------------|
| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:200 |
| Restrictions: | For Research Use only |

Handling

| | |
|--------------------|--|
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |

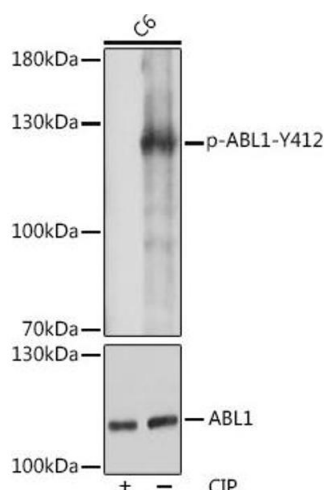
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



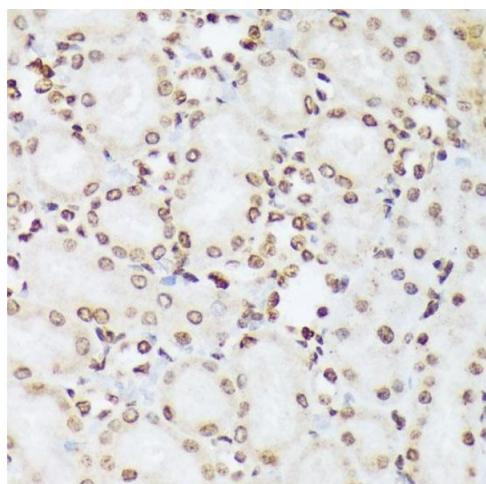
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human appendix using Phospho-c-Abl-Y412 antibody (ABIN7265966) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of C6 cells, using Phospho-c-Abl-Y412 pAb (ABIN7265966) at 1:1000 dilution or antibody (ABIN3020871, ABIN3020872, ABIN3020873 and ABIN6213767). C6 cells were treated by CIP (20uL/400 µL) at 37 °C for 1 hour. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded rat kidney using Phospho-c-Abl-Y412 antibody (ABIN7265966) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7265966.