

AB-PK505

Abl1-pY226 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase Abl (Abl1)



KINEXUS

Address: 8755 Ash Street, Suite 1
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Target Protein

| | |
|---------------------------------------|--|
| Name Long: | Abelson murine leukemia viral oncogene homologue 1 |
| Alias: | Abelson murine leukemia viral oncogene 1; ABL; C-ABL; JTK7; P150; v-abl Abelson murine leukemia viral oncogene 1; ENSG0000097007; Q13688; Q13914; Q59FK4 |
| UniProt ID: | P00519 |
| Sequence Predicted Mass (KDa): | 124.955 (1149 AA; P00519-2); 122.873 (1130 AA; P00519) |
| Observed SDS-PAGE Mass (KDa): | 140-142 |

Immunogen

| | |
|-------------------------------------|---|
| Antibody Immunogen Source: | Human Abl (Abl1) sequence peptide Cat. No.: PE-04AHZ95 |
| Antibody Immunogen Sequence: | PTV(pY)GVS(bA)C (bA) = beta-alanine |
| Location in Target: | Corresponds to amino acid residues P223 to S229; In the region between the SH2 domain and the protein kinase catalytic domain |
| Peptide Type: | For phosphosite-specific recognition of target. |
| Target Phosphosite: | Tyr-226 |

Production

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|--|---|
| Antibody Host Species: | Rabbit |
| Antibody Type: | Polyclonal |
| Antibody Ig Isotype Clone Lot: | Immunoglobulin G |
| Production Method: | The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose. |
| Antibody Amount: | 25 µg |
| Antibody Concentration: | 1 mg/ml |
| Lot Number: | 141024 |
| Storage Buffer: | Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol |
| Storage Conditions and Stability: | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. |

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Applications

| | |
|--|--|
| Product Use: | Western blotting Antibody microarrays |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human, mouse, rat and many other mammals; Phosphosite is highly conserved in mammals |
| Antibody Positive Controls: | Medium immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human Abl1 on protein dot blots. |
| Detection by Immunoblotting in Cell/Tissue Lysates: | Very weak immunoreactivity of a target-sized protein by Western blotting in FBS-treated A431 cells. |
| Overall Antibody Specificity: | Very high selectivity |
| Antibody Cross Reactivities: | Strong immunoreactivity on protein dot blots with recombinant human Abl2, which features an identical phosphosite sequence. A single FBS-stimulated ~85 KDa protein was detected in A431 cells. No cross-reactive proteins detected in Jurkat and HEK-293 cells and seastar oocytes. |

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)