

AB-PK506

Abl1- pY257 Antibody

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



KINEXUS

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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-04AFL95
Antibody Immunogen Sequence:	GEV(pY)EGV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G254 to V260; In the protein kinase catalytic domain in subdomain I.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-257

Production

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 multipep peptide 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:	150106
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 a nearly identical phosphosite sequence. No cross-reactive proteins detected in HEK-293 and A431 cells.

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)