

AB-PK510

Abl2-pY439+pT440 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase Abl2 (Arg)



KINEXUS

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Target Protein

Name Long:	Abelson murine leukemia viral oncogene homologue 2
Alias:	Abelson-related gene; ABLL; ARG; Kinase Arg; Tyrosine kinase ARG; v-Abl Abelson murine leukemia viral oncogene 2; v-Abl Abelson murine leukemia viral oncogene homologue 2; hCG_23565; FLJ22224; FLJ31718; FLJ41441; RP11-177A2_3; ENSG00000143322; D1MPS6
UniProt ID:	P42684
Sequence Predicted Mass (KDa):	128.343 (1182 AA; P42684); 126.684 (1167 AA; P42684-3); 126.219 (1161 AA; P42684-6); 124.560 (1146 AA; P42684-2); 117.942 (1079 AA; P42684-5); 116.283 (1064 AA; P42684-10); 115.817 (1058 AA; P42684-7); 114.159 (1043 AA; P42684-4); 60.864 (542 AA; P42684-8)
Observed SDS-PAGE Mass (KDa):	130-140

Immunogen

Antibody Immunogen Source:	Human Abl2 (Arg) sequence peptide Cat. No.: PE-04AFH95
Antibody Immunogen Sequence:	DT(pY)(pT)AHA(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D437 to A443; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-439+Thr-440

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 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:	150205
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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 vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human Abl2 on protein dot blots.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human Abl1, which features identical phosphorylation sites. ~27 and 85 KDa cross-reactive proteins were detected in FBS-stimulated Jurkat 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)