

AB-PK535

B-Raf-pS729 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase Raf-B (BRaf)



KINEXUS

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Target Protein

Name Long:	B-Raf proto-oncogene serine-threonine-protein kinase; RafB proto-oncogene-encoded protein-serine kinase
Alias:	B-RAF; B-RAF proto-oncogene serine/threonine-protein kinase; BRAF1; C-RMIL; Kinase B-Raf; P94; RAFB1; RMIL; RMIL serine/threonine-protein kinase; V-Raf murine sarcoma viral oncogene homolog B1; MGC126806; MGC138284; CCDS5863.1; ENSG00000157764
UniProt ID:	P15056
Sequence Predicted Mass (KDa):	84.437 (766 AA; P15056)
Observed SDS-PAGE Mass (KDa):	87-97

Immunogen

Antibody Immunogen Source:	Human Raf-B (BRaf) sequence peptide Cat. No.: PE-04AEA99
Antibody Immunogen Sequence:	RSA(pS)EPS(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R726 to S732; In the C-terminal region after the kinase catalytic domain.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-729

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:	0.3 mg/ml
Lot Number:	141003
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 vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Strong immunoreactivity with immunogen peptide on dot blots. Very strong immunoreactivity with recombinant human B-Raf on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium-weak immunoreactivity of a target-sized protein by Western blotting in HEK-293 cells.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human Raf1, which features an identical phosphosite sequence. Cross-reacts with CDK1 and a 25 KDa protein in sea star oocytes, and a 27 KDa protein in HEK-293 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)