

AB-PK759

PDGFRa-pY768 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase PDGFRa



KINEXUS

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Target Protein

Name Long:	Platelet-derived growth factor receptor kinase alpha
Alias:	Al115593; Alpha platelet-derived growth factor receptor precursor; CD140a; Kinase PDGFR-alpha; MGC74795; PDGFR2; PDGFRa; PDGFR-alpha; PDGF-R-alpha; PGFRA; Platelet-derived growth factor, alpha-receptor; Rhe-PDGFRa; RHEPDGFRa; CD140A; MGC74795; CCDS3495.1; ENSG00000134853
UniProt ID:	P16234
Sequence Predicted Mass (KDa):	122.670 (1089 AA; P16234); 82.809 (743 AA; P16234-3); 24.023 (218 AA; P16234-2)
Observed SDS-PAGE Mass (KDa):	115-135

Immunogen

Antibody Immunogen Source:	Human PDGFRa sequence peptide Cat. No.: PE-04AKU95
Antibody Immunogen Sequence:	PAS(pY)KKK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues P765 to K771; In the protein kinase catalytic domain near subdomain VI. This is the major in vivo phosphorylation sites in PDGFRa.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-768

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:	141107
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 mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Medium immunoreactivity on protein dot blots with recombinant human Flt3, which does not appear to feature a similar phosphosite.

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)