

AB-PK853

VEGFR3-pY1068 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase VEGFR3 (Flt4)



KINEXUS

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Target Protein

Name Long:	Vascular endothelial growth factor receptor 3 ; Vascular endothelial growth factor receptor-protein-tyrosine kinase 3
Alias:	Fms-related tyrosine kinase 4; PCL; Tyrosine-protein kinase receptor FLT4; FLT41; VEGFR3; VGFR3; VGR3; CCDS4457.1; ENSG00000037280
UniProt ID:	P35916
Sequence Predicted Mass (KDa):	152.757 (1363 AA; P35916); 145.599 (1298 AA; P35916-1); 93.174 (830 AA; P35916-3)
Observed SDS-PAGE Mass (KDa):	160-175

Immunogen

Antibody Immunogen Source:	Human VEGFR3 (Flt4) sequence peptide Cat. No.: PE-04AMK99
Antibody Immunogen Sequence:	DPD(pY)VRK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D1065 to K1071; 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-1068

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 multipеп 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:	150305
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
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots. Strong immunoreactivity with recombinant human VEGFR3 on protein dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Weak immunoreactivity on protein dot blots with recombinant human VEGFR2 and VEGFR3. Almost no significant cross-reactives in T98G and sea star oocytes, although a strong 80 KDa cross-reactive protein is detected in sea star 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)