

AB-PK851

VEGFR1-pY1053 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase VEGFR1 (Flt1)



KINEXUS

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Target Protein

Name Long:	Vascular endothelial growth factor receptor 1
Alias:	FLT; Flt-1; Fms-like tyrosine kinase 1; Fms-related tyrosine kinase 1; FRT; Tyrosine-protein kinase FRT; Tyrosine-protein kinase receptor FLT; VGFR1; CCDS9330.1; ENSG00000102755
UniProt ID:	P17948
Sequence Predicted Mass (kDa):	150.769 (1338 AA; P17948); 82.124 (733 AA; P17948-3); 77.474 (687 AA; P17948-2); 62.954 (556 AA; P17948-5); 60.917 (541 AA; P17948-4); 52.613 (463 AA; P17948-6); 41.175 (361 AA; P17948-8); 39.148 (343 AA; P17948-7)
Observed SDS-PAGE Mass (kDa):	150-190

Immunogen

Antibody Immunogen Source:	Human VEGFR1 (Flt1) sequence peptide Cat. No.: PE-04AGP99
Antibody Immunogen Sequence:	NPD(pY)VRK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N1050 to K1056; 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-1053

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 multipепeptide 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% 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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Medium-strong immunoreactivity with recombinant human VEGFR1 on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium-strong immunoreactivity of a target-sized protein by Western blotting in T98G cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Medium immunoreactivity on protein dot blots with recombinant human VEGFR3 and weak immunoreactivity with VEGFR2. No significant cross-reactive proteins detected in MCF7 and T98G 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)