

AB-PK850

VEGFR1-pY1048 Antibody

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



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

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-04AFM99
Antibody Immunogen Sequence:	RDI(pY)KNP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R1045 to P1051; 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-1048

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% 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; Phosphosite is highly conserved in mammals
Antibody Positive Controls:	Medium immunoreactivity with recombinant human VEGFR1 on protein dot blots.
Antibody Cross Reactivities:	Medium to strong immunoreactivity on protein dot blots with recombinant human VEGFR2 and VEGFR3, which feature nearly identical phosphosite sequences.

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)