

AB-PK852

VEGFR2-pY1054 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase VEGFR2 (KDR)



KINEXUS

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Target Protein

Name Long:	Vascular endothelial growth factor receptor 2 ; Vascular endothelial growth factor receptor-tyrosine kinase 2 (Flk1)
Alias:	A type III receptor tyrosine kinase; CD309; FLK1; Kinase insert domain receptor; Protein-tyrosine kinase receptor Flk-1; Vascular endothelial growth factor receptor 2; VEGFR; VEGFR2; VGR2; CD309; CCDS3497.1; ENSG00000128052
UniProt ID:	P35968
Sequence Predicted Mass (KDa):	151.527 (1356 AA; P35968); 79.634 (712 AA; P35968-3); 75.896 (678 AA; P35968-2)
Observed SDS-PAGE Mass (KDa):	170-200

Immunogen

Antibody Immunogen Source:	Human VEGFR2 (KDR) sequence peptide Cat. No.: PE-04AGM99
Antibody Immunogen Sequence:	RDI(pY)KDP(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R1051 to P1057; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-1054

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 multipep 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:	150115
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:	Very strong immunoreactivity with recombinant human VEGFR2 on protein dot blots.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human VEGFR3 and medium immunoreactivity with VEGFR1, which feature nearly identical phosphosite sequences. Almost no significant cross-reactivities detected in HepG2 and T98G cells, except a 75 KDa in HepG2 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)