

AP02384PU-N**Polyclonal Antibody to CD309 / VEGFR-2 / Flk-1 pTyr951 - Aff - Purified**

Alternate names:	FLK1, KDR, Kinase NYK, Kinase insert domain receptor, Protein-tyrosine kinase receptor Flk-1, VEGF Receptor 2, VEGFR2, Vascular endothelial growth factor receptor 2
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	VEGF receptor 2 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand binding VEGF receptor 2 dimerises and is autophosphorylated on multiple tyrosine residues. These sites can be involved in the regulation of kinase activity or serve as binding sites for SH2 and phosphotyrosine binding containing signalling proteins. Phosphorylation of Tyrosines 1054 and 1059 in the activation loop is required for activation of VEGF receptor 2 and its intrinsic tyrosine kinase activity. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.
Uniprot ID:	P35968
NCBI:	NP_002244.1
GenElD:	3791
Host:	Rabbit
Immunogen:	Peptide sequence around the phosphorylation site of Tyrosine 951 (K-D-Yp-V-G).
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography using epitope-specific immunogen. Buffer System: PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, containing 150 mM NaCl, 0.02% Sodium Azide and 50% glycerol.
Applications:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin Embedded Tissue: 1/50-1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. This antibody detects endogenous levels of VEGFR2 only when phosphorylated at Tyrosine 951. Species: Human, Rat and Mouse. Other species not tested.
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

General Readings:

1. Zeng H, et al. (2001) J Biol Chem. 276(35): 32714-32719.
2. Dougher M, et al. (1999) Oncogene. 18(8): 1619-1627.

Pictures:

Figure 1. Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue using VEGFR2 (phospho-Tyr951) antibody (AP02384PU).

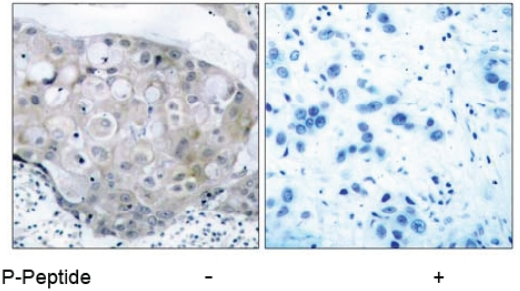


Figure 3. Immunofluorescence staining of methanol-fixed MCF cells using VEGFR2 (Phospho- Tyr951)antibody AP02384PU

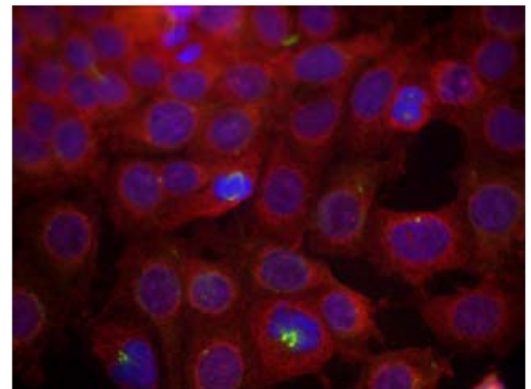


Figure 2. Western blot analysis of extracts from G-CSF-treated HUVEC and serum-treated HT29 cells using VEGFR2 antibody (Phospho-Tyr951) AP02384PU

