

DP076-05**Polyclonal Antibody to CD309 / VEGFR-2 / Flk-1 (C-term) - 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:	0.5 ml
Background:	CD309 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
GeneID:	3791
Host:	Rabbit
Immunogen:	A synthetic peptide derived from the C-terminus of the precursor form of the Mouse Flk-1
Format:	State: Liquid purified IgG fraction Preservatives: < 0.1% Sodium Azide
Applications:	Immunohistochemistry on Paraffin Sections: Use a 1/50-1/100 dilution in an ABC method (incubation time: 30 minutes at room temperature). Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Recommended positive control: Angiosarcoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with a 180 kD protein, known as Flk-1/KDR/Vascular endothelial growth factor receptor 2. Cellular Localization: Cytoplasmic. Species: Human, Mouse and Rat. Other species not tested.
Add. Information:	Mol. Wt. of Antigen: ~180 kDa
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.

General Readings:

1. Ankam-Sey et al. *Oncogene* 17: 115, 1998.
2. Ergun et al. *Mol Cell Endocrinol* 131: 9, 1997.
3. Quinn et al. *Proc Natl Acad Sci USA* 90: 7533, 1993.

Pictures:

Formalin fixed paraffin embedded human angiosarcoma stained with Flk-1 antibody

