

Product datasheet for DP076

VEGF Receptor 2 (KDR) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	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.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide derived from the C-terminus of the precursor form of the Mouse Flk-1
Specificity:	This antibody reacts with a 180 kD protein, known as Flk-1/KDR/Vascular endothelial growth factor receptor 2. Cellular Localization: Cytoplasmic.
Formulation:	State: Purified State: Liquid purified IgG fraction Preservative: < 0.1% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	kinase insert domain receptor
Database Link:	Entrez Gene 3791 Human P35968



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Background:

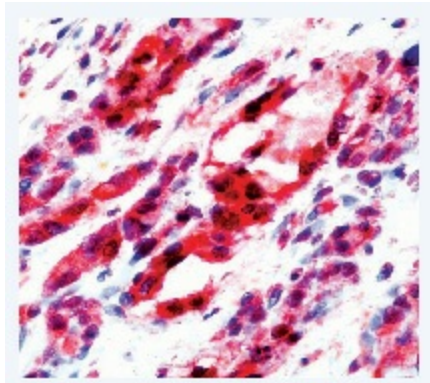
CD309 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand binding VEGF receptor 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.

Synonyms:

VEGFR2, FLK1, KDR, VEGF Receptor 2

Note:

Mol. Wt. of Antigen: ~180 kDa

Product images:

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