

Product datasheet for **DP3509**

VEGF Receptor 2 (KDR) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, FN, IHC, IP, WB
Recommended Dilution:	ELISA (5-15 µg/ml). Western blotting (1-20 µg/ml). Immunoprecipitation (1-2 µg/mg protein lysate). FACS analysis (1-5 µg/ml). Neutralizing experiments: Depending on the conditions and ligand concentration start with 25-50 µg/ml. Immunohistochemistry with Cryo Sections.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant Human soluble extracellular domain of KDR protein (D1-7).
Specificity:	The polyclonal antibody will detect native and recombinant Human VEGFR-2/KDR in ELISA experiments and on the surface or solubilized from different Human cell types.
Formulation:	PBS, pH 7.4 without preservatives or stabilizers State: Azide Free State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kinase insert domain receptor
Database Link:	Entrez Gene 3791 Human P35968



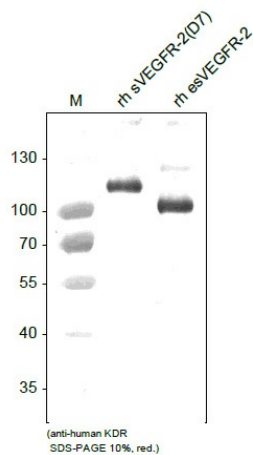
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Background:

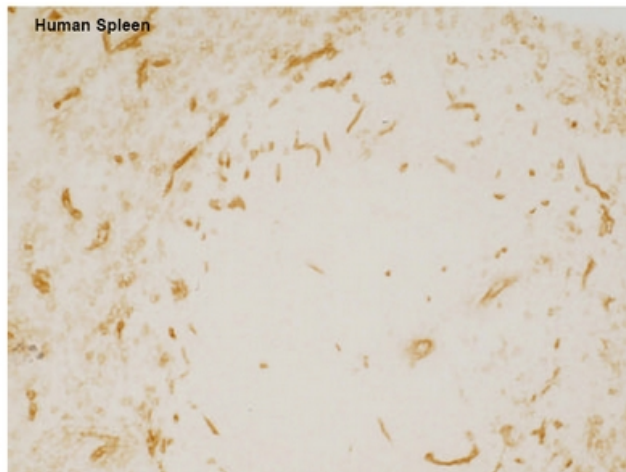
VEGF receptor 2 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand binding 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.

Synonyms:

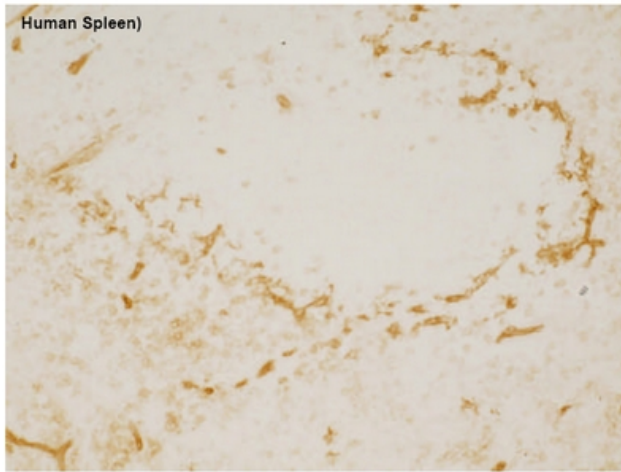
VEGFR2, FLK1, KDR, VEGF Receptor 2

Product images:


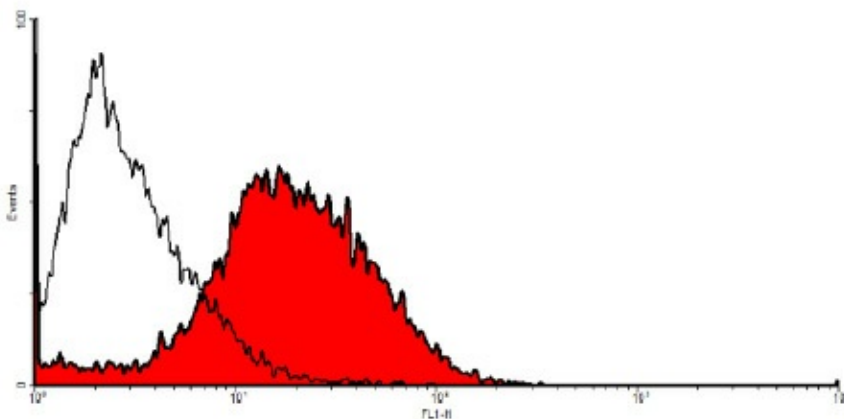
Western Analysis of anti-human VEGFR-2/KDR. Samples were loaded in 10% SDS-polyacrylamide gel under reducing conditions. For Lane 1, recombinant sVEGFR-2(D7) ([DA3530]) was loaded; for Lane 2, recombinant esVEGFR-2 ([AR26018PU-N]) was loaded.



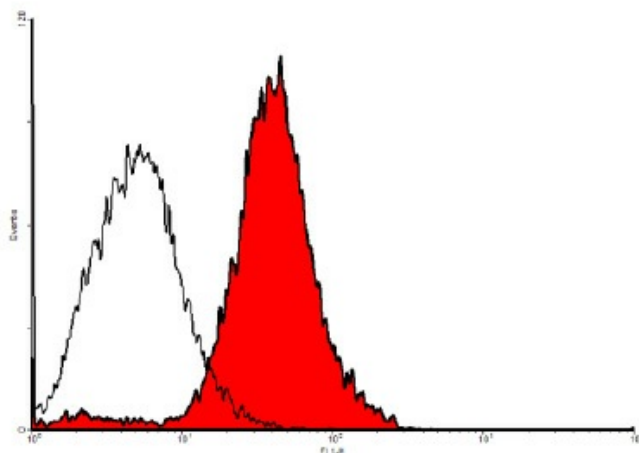
Immunohistochemistry with Cryo sections using polyclonal anti-Human VEGFR-2/KDR antibody. The experiment was performed by Prof. Dr. Birte Steiniger, Institute of Anatomy and Cell Biology Robert-Koch-Str. 8, D-35037 Marburg, Germany.



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FACS analysis with primary human umbilical vein endothelial cells (HUVEC).



FACS analysis with primary human dermal lymphatic endothelial cells (HDLEC).