

Product datasheet for **DP3509P**

VEGF Receptor 2 (KDR) Rabbit Polyclonal Antibody

Product data:

| | |
|------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, FC, FN, IF, IP, WB |
| Recommended Dilution: | ELISA (5-15 µg/ml). Western blotting (10-20 µg/ml). Immunoprecipitation (1-2 µg/mg protein lysate). FACS (1-5 µg/ml). Neutralizing experiments: Depending on the conditions and ligand concentration start with 25-50 µg/ml. Immunohistochemistry on Paraffin Sections (2-10 µg/ml). |
| Reactivity: | Human |
| Host: | Rabbit |
| Isotype: | IgG |
| 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: Aff - Purified State: Lyophilized purified Ig fraction |
| Reconstitution Method: | Restore in sterile water to a concentration of 0.1-1.0 mg/ml. |
| Purification: | Antigen Affinity Chromatography |
| Conjugation: | Unconjugated |
| Storage: | The lyophilized antibody, thought stable at room temperature, is best stored desiccated below 0°C. Reconstituted anti-VEGFR-2/KDR is stable at 2-8°C for one month or can be stored in working aliquots at -20°C for more than six months. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | kinase insert domain receptor |



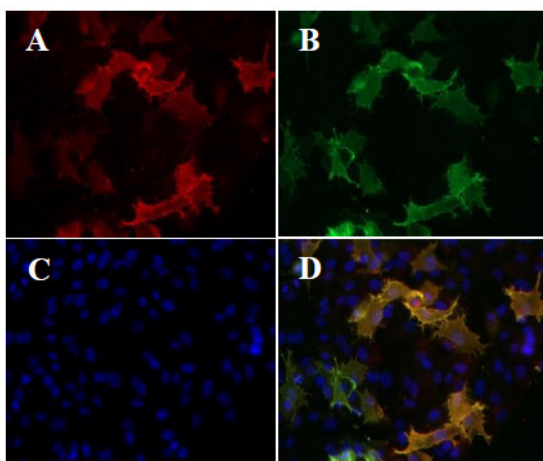
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Database Link: [Entrez Gene 3791 Human P35968](#)

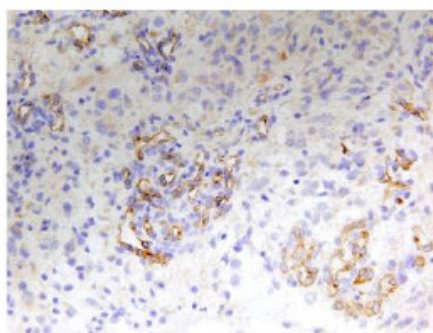
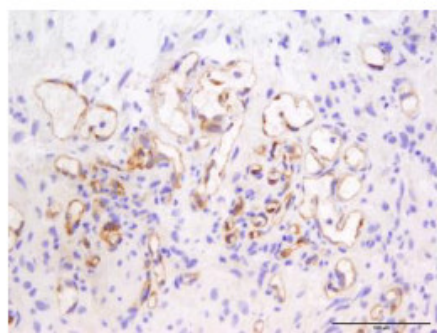
Background: VEGF receptor 2 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand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

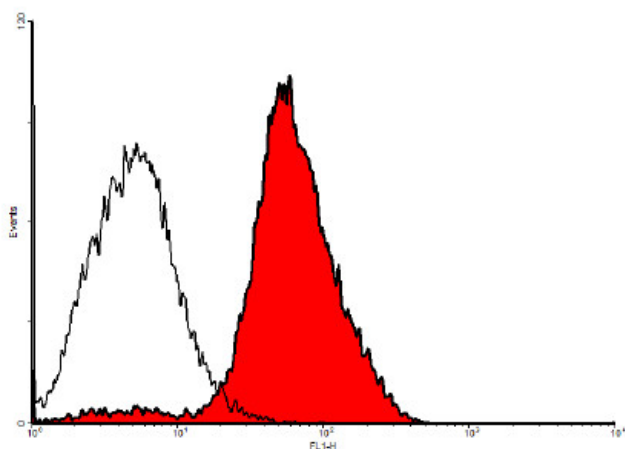
Product images:



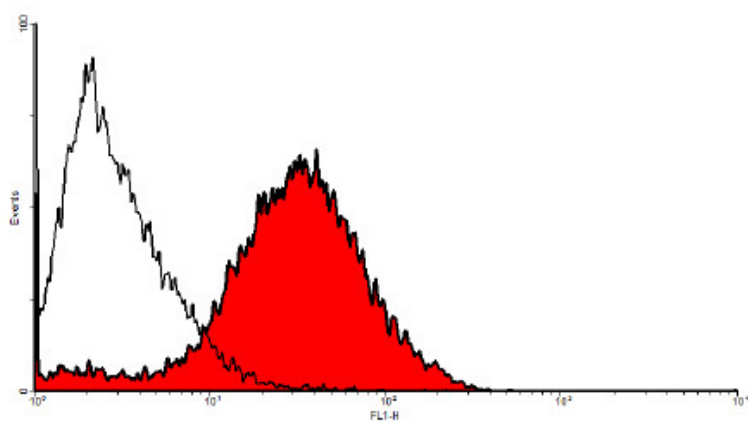
IF double staining of human KDR in a co-culture of PAE-Flt-1, PAE-KDR and PAE-FLT-4 with (A) mouse anti-human KDR, (B) rabbit anti-human KDR [B, #DP3509P, (C) DAPI and (D) merged. Conjugated secondary antibody: goat anti-rabbit ALEXA Flour (1:600) and goat anti-mouse PE.



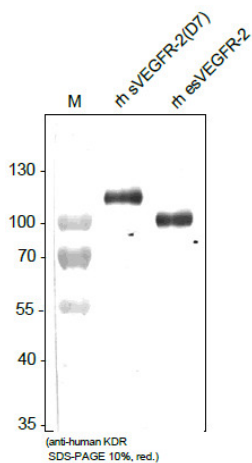
IHC with paraffin sections of human Glioblastoma tissue with a polyclonal rabbit anti-human VEGFR-2/KDR antibody [5 µg/ml]. The sections were pretreated with 2 mMol HCL in the microwave. The secondary goat anti-rabbit antibody was used 1:500 [Dianova]. Blocking was performed with 10% goat serum. The experiment was performed by Brigitte Maruschak, Dept. of Neuropathology, University Hospital Göttingen, Germany.



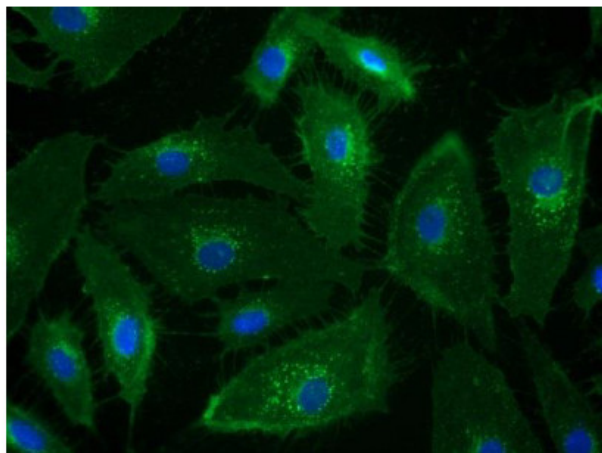
FACS analysis with primary human dermal lymphatic endothelial cells (HDLEC).



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



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.



Immunofluorescence staining (green) of VEGFR-2/KDR in primary human dermal lymphatic endothelial cells (HDLEC) with rabbit anti-human VEGFR-2 (5µg/ml) [Cat# DP3509P and counter staining of nuclei with Dapi. As secondary antibody goat anti-mouse ALEXA Flour 488 (Dianova) was used 1:600.