

Product datasheet for **DM3502**

VEGF Receptor 2 (KDR) Mouse Monoclonal Antibody [Clone ID: KDREIC]

Product data:

Product Type:	Primary Antibodies
Clone Name:	KDREIC
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA: 1-15 µg/ml. Immunofluorescence/Immunohistochemistry: 6-30 µg/ml. Flow Cytometry analysis and cell sorting: 3-15 µg/ml. Western Blot: 2-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular KDR (D7) (110 kDa) (Cat.-No DA3530)
Specificity:	The antibody will detect native VEGFR-2/KDR in ELISA experiments and on the surface of different Human cell types.
Formulation:	PBS, pH 7.4, containing no preservative State: Purified State: Lyophilized purified IgG fraction from Cell Culture Supernatant
Reconstitution Method:	Restore in sterile water to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
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



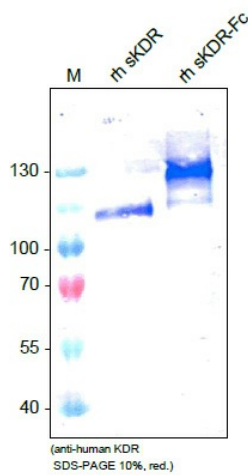
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Background:

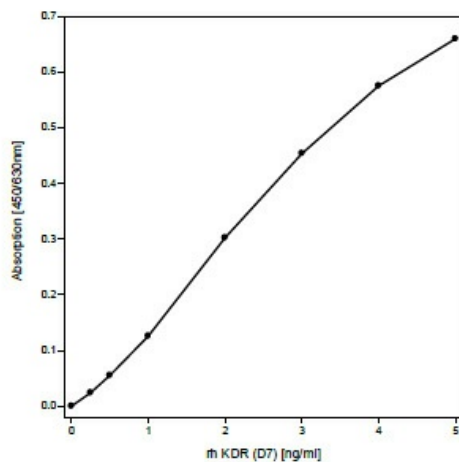
VEGF receptor 2 is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. Like other growth factor receptors, upon ligand binding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

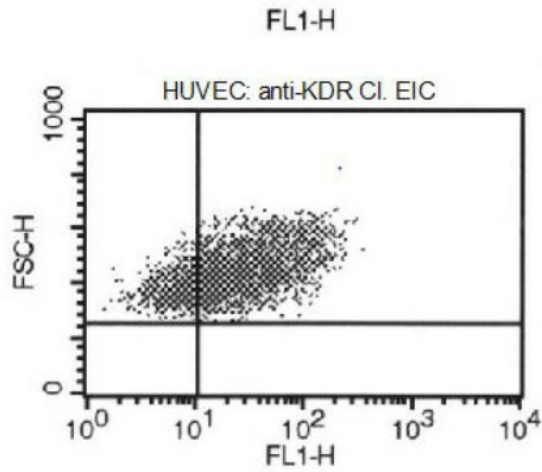
VEGFR2, FLK1, KDR, VEGF Receptor 2

Product images:


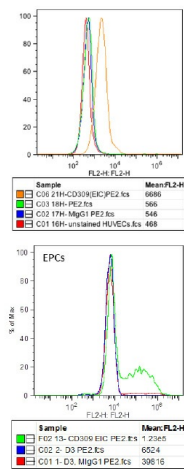
Western Analysis of anti-Human VEGFR-2/KDR. Samples were loaded in 10% SDS-polyacrylamide gel under reducing conditions.



Functional ELISA with anti-human VEGFR-2/KDR. Recombinant human soluble KDR (D7) [DA3530X] was coated with increasing amounts in a 96 well microtiter plate. The antibody was used at 1ug/ml.



FACS analysis of VEGFR-2/KDR expression in HUVE cells.



FACS analysis of VEGFR-2/KDR expression in HUVE cells (upper level) and EPCs derived from PBMCs (lower level) (5ug/ml) C, 5ug/ml PE goat anti-Mouse IgG. The experiment was performed by Trisha M. Westerhof, University of California, Irvine.