

## Product datasheet for **DM3522B**

### VEGF Receptor 2 (KDR) Mouse Monoclonal Antibody [Clone ID: 4H3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	4H3
Applications:	ELISA, FC, WB
Recommended Dilution:	<b>ELISA:</b> 1-10 µg/ml. <b>Western Blot:</b> 2-5 µg/ml. <b>Flow Cytometry analysis and cell sorting:</b> 2-10 µg/ml. <b>Immunofluorescence/ Immunohistochemistry:</b> 6-30 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular KDR (D7) (110 kDa) protein (Cat.-No AR26018PU-N)
Specificity:	This unconjugated antibody will detect native Human VEGFR-2/KDR in ELISA experiments and on the surface of different Human cell types.
Formulation:	PBS Label: Biotin State: Lyophilized purified Ig fraction Stabilizer: BSA (50X) Preservative: 0.02% Sodium Azide
Reconstitution Method:	Restore with sterile water to a concentration of 0.1-1.0 mg/ml. Centrifuge vial prior to opening.
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



[View online »](#)

**Gene Name:** kinase insert domain receptor

**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:

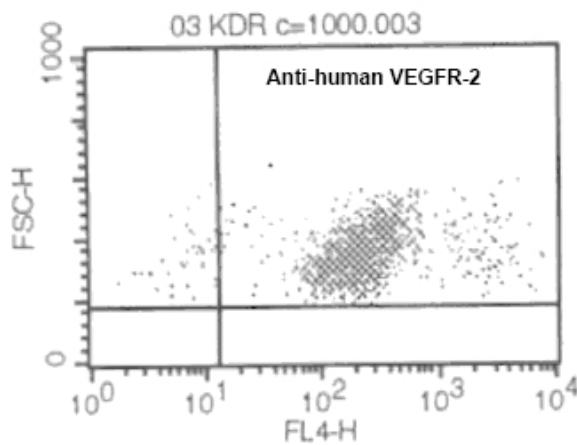


Figure 1. FACS analysis with primary human microvascular endothelial cells (HMVEC) using biotinylated monoclonal antibody.