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KDR
Mouse Anti-Human VEGFR-2/KDR Clone #4 (20I6) Biotin mAb

Catalog No.	CMV120	**Quantity:**	50 µg

Alternate Names: Vascular endothelial growth factor receptor 2, VEGFR-2, Fetal liver kinase 1 (FLK-1), Kinase insert domain receptor (KDR), Protein-tyrosine kinase receptor flk-1, CD309

Description: VEGF R1 (Flt-1), VEGF R2 (KDR/Flk-1), and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domain and kinase insert domains in their intracellular region. They are best known for regulating VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. They are also mediators of neurotrophic activity and regulators of hematopoietic development. Human VEGF R2 is thought to be the primary inducer of VEGF-mediated blood vessel growth, while VEGF R3 plays a significant role in VEGF-C and VEGF-D-mediated lymphangiogenesis.

UniProt ID: P35968

Specificity: The antibody will detect native human VEGFR-2/KDR in ELISA and on the surface of different human cell types.

Host: BALB/c mouse

Immunogen: Recombinant human soluble extracellular KDR (D7)

Isotype: IgG1

Clone: #4 (20I6)

Conjugate: Biotin

Formulation: Lyophilized in PBS, 50X BSA, 0.02% sodium azide

Purification: Protein G chromatography

Reconstitution: **Centrifuge vial prior to opening**. Add sterile distilled water to the vial to fully solubilize the antibody to a concentration of 0.1-1.0 mg/ml. Addition of 50% glycerol is recommended for frozen aliquots.

Applications: FACS: Use at 2-10 µg/ml
ELISA: Use at 1-10 µg/ml
The optimal concentration should be determined by the user for each specific application.

Storage & Stability: The lyophilized product, though stable at room temperature for 2 weeks and at -20°C to -80°C for up to 1 year. Reconstituted protein is stable for two weeks at 2-8°C or for at least 6 months at -20°C to -80°C. Store in working aliquots. **Avoid repeated freeze-thaw cycles.**

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