

KDR

Rabbit Anti-Human VEGFR2/KDR Biotin Affinity Purified pAb

Catalog No.	CPV113	Quantity:	50 µg
Alternate Names:	Vascular Endothelial Growth Factor Receptor- 2, VEGFR-2, CD309, Fetal liver kinase 1, FLK1, Kinase insert domain receptor (a type III receptor tyrosine kinase)		
Description:	<p>sKDR_{D1-7} is produced as a non-chimeric protein in a monomeric form. The soluble receptor protein consists of all 7 extracellular domains, which contain all the information necessary for high affinity ligand binding. The receptor monomers have a mass of approximately 116 kDa.</p> <p>Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signaling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. The binding of VEGF₁₆₅ to VEGFR-2 is dependent on heparin.</p>		
Gene ID:	3791		
Host:	Rabbit		
Immunogen:	Recombinant human soluble KDR protein (D1-7)		
Isotype:	IgG		
Conjugate:	Biotin		
Formulation:	Lyophilized from PBS + 50x BSA + 0.02% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	Protein A purified		
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.		
Applications:	ELISA: Use at 5-15 µg/ml The optimal concentration should be determined by the user for each specific application.		
Storage & Stability:	The lyophilized antibody is stable at room temperature for up to one month. On receipt, store lyophilized antibody at -20°C. Reconstituted antibody is stable for at least six weeks at 2-4°C or for more than six months stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

