

KDR

Rabbit Anti-human VEGFR2/KDR pAb

Catalog No.	CPV103A CPV103B	Quantity:	100 µg 200 µg
Alternate Names:	CD309, Fetal liver kinase 1, FLK1, Krd-1, Ly73, NYK, VEGF receptor-2		
Description:	<p>Rabbit Anti-human VEGFR2/KDR polyclonal antibody</p> <p>Soluble KDR domains 1-7 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		
Specificity:	Human VEGFR2/KDR		
Host:	Rabbit		
Immunogen:	Recombinant human soluble extracellular domain of KDR protein (D1-7)		
Formulation:	Lyophilized from PBS		
Purification:	Protein A 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.		
Applications:	<p>ELISA: use at 5-15 µg/ml. Western blot: use at 1-5 µg/ml.</p> <p>Immunoprecipitation: use 1-2 µg/mg protein lysate. The optimal concentration should be determined by the user for each specific application.</p>		
Storage & Stability:	Lyophilized antibody is best stored desiccated below 0°C. Reconstituted antibody is stable for 2 weeks at 2-4°C or in working aliquots at -20°C for at least 6 months. Avoid repeated freeze-thaw cycles.		

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