

## KDR

### Rabbit Anti-Human VEGFR2/KDR Biotin Affinity Purified pAb

<b>Catalog No.</b>	CPV113	<b>Quantity:</b>	50 µg
<b>Alternate Names:</b>	Vascular Endothelial Growth Factor Receptor- 2, VEGFR-2, CD309, Fetal liver kinase 1, FLK1, Kinase insert domain receptor (a type III receptor tyrosine kinase)		
<b>Description:</b>	<p>sKDR<sub>D1-7</sub> 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/Fik-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 VEGF<sub>165</sub> to VEGFR-2 is dependent on heparin.</p>		
<b>Gene ID:</b>	3791		
<b>Host:</b>	Rabbit		
<b>Immunogen:</b>	Recombinant human soluble KDR protein (D1-7)		
<b>Isotype:</b>	IgG		
<b>Conjugate:</b>	Biotin		
<b>Formulation:</b>	Lyophilized from PBS + 50x BSA + 0.02% sodium azide. <b>Precaution:</b> Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
<b>Purification:</b>	Protein A purified		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to the vial to fully solubilize the antibody to a concentration of 0.1-1.0 mg/ml.		
<b>Applications:</b>	ELISA: Use at 5-15 µg/ml The optimal concentration should be determined by the user for each specific application.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze-thaw cycles.</b>		

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

