

## KDR

### Mouse Anti-Human VEGFR-2/KDR Clone 4 (2016) mAb

<b>Catalog No.</b>	CMV016	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	KDR, FLK1, CD309, VEGFR, VEGFR2, vascular endothelial growth factor receptor 2, kinase insert domain receptor (a type III receptor tyrosine kinase)		
<b>Description:</b>	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.		
<b>Gene ID:</b>	3791		
<b>Specificity:</b>	The antibody will detect native human VEGFR-2/KDR in ELISA and on the surface of different human cell types.		
<b>Host:</b>	Mouse		
<b>Immunogen:</b>	Recombinant human soluble KDR (D7)		
<b>Isotype:</b>	IgG1		
<b>Clone:</b>	4 (2016)		
<b>Formulation:</b>	Lyophilized in PBS		
<b>Purification:</b>	Protein G chromatography		
<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 to 1.0 mg/ml.		
<b>Applications:</b>	ELISA, WB, IHC, IF, FC		
<b>Application Notes:</b>	Western Blot: Use at 2-5 µg/ml FACS: Use at 2-5 µg/ml IF/IHC: Use at 6-30 µg/ml ELISA: Use at 1-10 µg/ml The optimal concentration should be determined by the user for each specific application.		
<b>Storage &amp; Stability:</b>	The lyophilized product, though stable at room temperature for three weeks, is best stored desiccated at -20°C to -80°C. Reconstituted protein is stable for two weeks at +2°C to +4°C, or for longer storage at -20°C to -80°C. Store in working aliquots. <b>Avoid repeated freeze-thaw cycles.</b>		

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