

Mouse Anti-human VEGFR-1 (Clone 8F12) Agonistic mAb

Catalog No.	CMV125	Quantity:	200 µg
Alternate Names:	Vascular endothelial growth factor receptor 1, VEGFR-1, Fms-like tyrosine kinase 1, FLT-1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, Vascular permeability factor receptor		
Description:	<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, dendritic cells and on trophoblast cells. The flt-1 gene was first described in 1990. The receptor contains seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. Compared to VEGFR-2 the Flt-1 receptor has a higher affinity for VEGF but a weaker signaling activity. VEGFR-1 thus leads not to proliferation of endothelial cells, but mediates signals for differentiation. Interestingly a naturally occurring soluble variant of VEGFR-1 (sVEGFR-1) was found in HUVEC supernatants in 1996, which is generated by alternative splicing of the flt-1 mRNA. The antibody will bind near the ligand binding site of the receptor and has agonistic activity.</p>		
UniProt ID:	P17948		
Gene ID:	2321		
Source:	Cell culture supernatant		
Specificity:	Human VEGFR1, no reactivity with hVEGFR2		
Immunogen:	Human VEGFR1 N-terminal fragment (aa 25-250)		
Isotype:	Mouse IgG1		
Clone:	8F12		
Formulation:	Lyophilized from sterile filtered PBS		
Purification:	Protein G chromatography		
Reconstitution:	<p>Centrifuge vial briefly prior to opening. Add 500 µl sterile PBS to the vial for a concentration of 200 µg/ml. Gently mix, allow a few minutes to solubilize completely. Do not vortex.</p>		
Applications:	<p>Western Blot VEGFR1 activation: Induces hVEGFR1 phosphorylation in HUVECs at > 2.0 µg/ml.</p>		
Storage & Stability:	<p>Lyophilized antibody is stable for at least 1 year at -20°C to -80°C. Reconstituted antibody is stable for six months in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.</p>		

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