

Mouse Monoclonal Antibody to KDR

Catalogue Number	sAP-0324
Target Molecule	Name: KDR Aliases: FLK1; CD309; VEGFR; VEGFR2 MW: 152kDa Entrez Gene ID: 3791
Description	KDR has also been designated as VEFR-2 (Vascular endothelial growth factor receptor 2), CD309 (cluster of differentiation 309) and FLK1 (fetal liver kinase 1). Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. KDR is one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.
Immunogen	Purified recombinant extracellular fragment of human KDR (aa20-764) fused with hIgGFc tag expressed in HEK293 cells.
Recitative Species	Human
Clone	MM4B4;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Blood. 2004 Aug 1;104(3):788-94. ; 2. FEBS Lett. 2002 Feb 13;512(1-3):107-10. ; 3. EMBO J. 2001 Jun 1;20(11):2768-78.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**