



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to KDR

**Catalog Number:** MAB-606020394

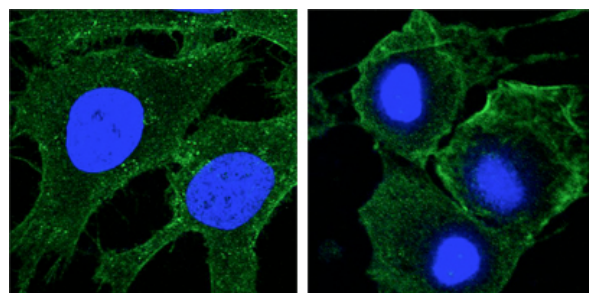
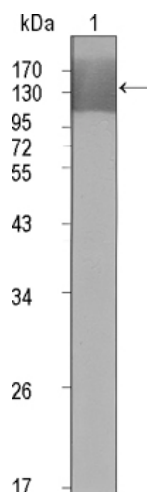


Figure 2: Confocal immunofluorescence analysis of HeLa (left) and HepG2 (right) cells using KDR mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

Lot#:  
Clone#: 4B4  
Host and isotype: Mouse IgG1  
Size: 0.1ml  
MW: 152kDa  
Aliases: FLK1; CD309; VEGFR;  
VEGFR2  
Entrez Gene: 3791  
Species reactivity: Human

Figure 1: Western blot analysis using KDR mouse mAb against extracellular domain of human KDR (aa20-764).

**Description** KDR has also been designated as VEGFR-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  $\alpha$ V $\beta$ 3, 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.

**Application** Western Blotting: 1/500 - 1/2000.  
Immunofluorescence: 1/200 - 1/1000.  
Flow cytometry: 1/200 - 1/400.  
ELISA: Propose dilution 1/10000.  
Not yet tested in other applications.  
Determining optimal working dilutions by titration test.

**Formulation** Ascitic fluid containing 0.03% sodium azide.

**Storage** Store at 4°C, for long term storage, store at -20°C.

**Related product**

**References** 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.

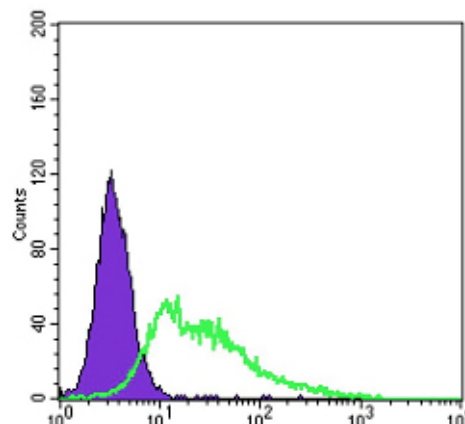


Figure 3: Flow cytometric analysis of HepG2 cells using KDR mouse mAb (green) and negative control (purple).

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