Product Name: KDR Mouse Monoclonal Antibody
Catalog #: AMM80776
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	ICC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	152kDa

Antigen Information

Gene Name	KDR
Alternative Names	FLK1; CD309; VEGFR; VEGFR2
Gene ID	3791.0
SwissProt ID	P35968
Immunogen	Purified recombinant extracellular fragment of human KDR (aa20-764) fused with hIgGFc tag expressed in HEK293 cells.

Background

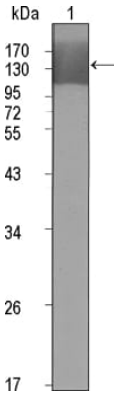
KDR has also been designated as VEFR-2 (Vascular endothelial growth factor receptor 2), CD309 (cluster of differentiation 309) and Flk1 (fetal liver kinase 1). Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. KDR is one

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.

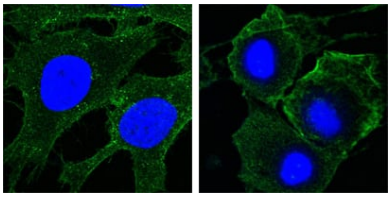
Research Area

TGF-beta signaling pathway,PI3K-Akt signaling pathway,Hippo signaling pathway

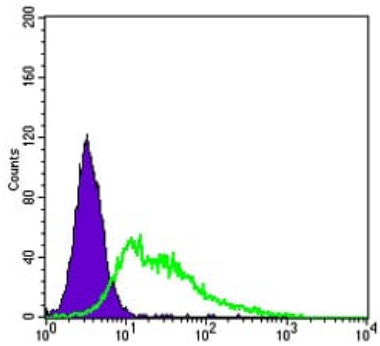
Image Data



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



Confocal Immunofluorescence analysis of Hela (left) and HepG2 (right) cells using KDR mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



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