

KDR Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2943
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant extracellular fragment of human KDR (aa20-764) fused with hIgGfc tag expressed in HEK293 cells.
Mol wt	152kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	FLK1;CD309;VEGFR;VEGFR2

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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 alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.

Recommended Dilution

WB: 1:500 - 1:2000

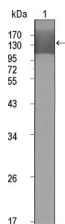
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

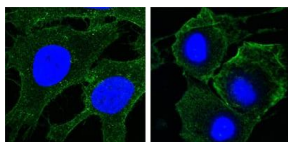
ELISA: 1:10000

Not yet tested in other applications.

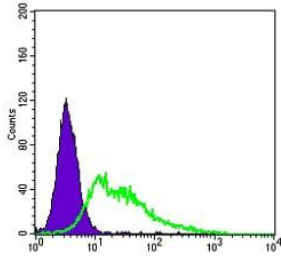
Images



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).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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