

KDR

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF IP

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:500 IF 1:50- 1:500 IP 1:20- 1:100

Calculated MW: 152kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human KDR

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

a

Synonym:

FLK1; CD309; VEGFR; VEGFR2

Catalog #: A1484

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID: 3791

Isotype: IgG

Swiss Prot: P35968

Purity: Affinity purification

For research use only.

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 $\alpha V\beta 3$, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas.

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