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AM06371SU-N Monoclonal Antibody to CD309 / VEGFR-2 / Flk-1 - Ascites

Alternate names: FLK1, KDR, Kinase NYK, Kinase insert domain receptor, Protein-tyrosine kinase receptor Flk-1, VEGF Receptor 2, VEGFR2, Vascular endothelial growth factor receptor 2

Quantity: 0.1 ml

Background: KDR has also been designated as VEGFR-2 (Vascular endothelial growth factor receptor 2), CD309 (cluster of differentiation 309) and Flk-1 (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.

Uniprot ID: P35968

NCBI: NP_002244.1

GeneID: 3791

Host / Isotype: Mouse / IgG1

Clone: 4B4

Immunogen: Purified recombinant extracellular fragment of human VEGFR-2 / KDR (aa20-764) fused with hIgGFc tag expressed in HEK293 cells.

Format: **State:** Ascitic fluid containing 0.03% Sodium Azide

Applications:
Western blot: 1/500-1/2000.
Immunofluorescence: 1/200-1/1000.
Flow Cytometry: 1/200-1/400.
ELISA: 1/10000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 152 kDa

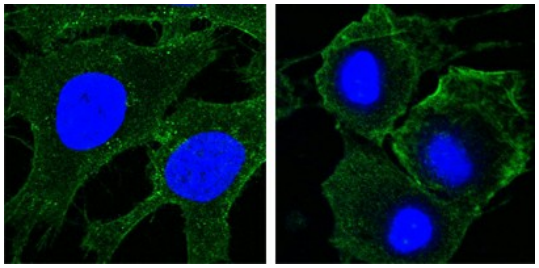
Specificity: This antibody recognizes Human VEGFR-2 / KDR.
Other species not tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

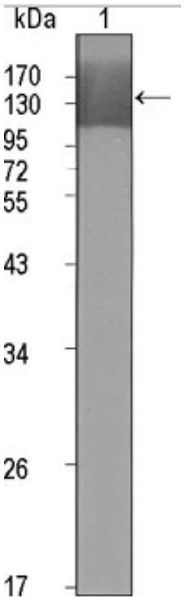
General Readings:
1. Blood. 2004 Aug 1;104(3):788-94.
2. FEBS Lett. 2002 Feb 13;512(1-3):107-10.
3. EMBO J. 2001 Jun 1;20(11):2768-78.

Pictures:

Confocal immunofluorescence analysis of Hela (left) and HepG2 (right) cells using VEGFR-2/KDR mouse mAb Cat.-No. AM06371SU-N (green). Blue: DRAQ5 fluorescent DNA dye.



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



Flow cytometric analysis of HepG2 cells using VEGFR-2/KDR mouse mAb Cat.-No. AM06371SU-N (green) and negative control (purple).