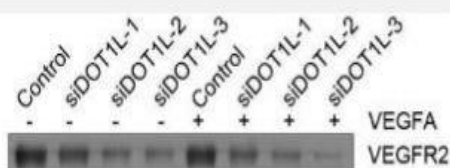


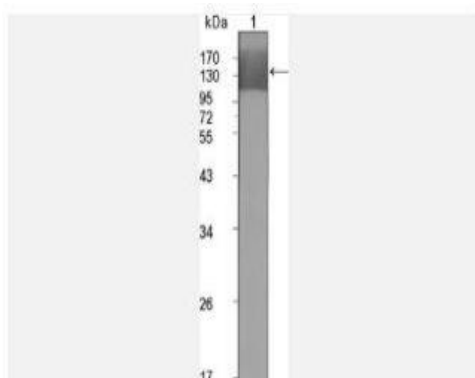
Flk-1/VEGFR2 Monoclonal Antibody

Catalog No.	IMB0099
Reactivity	Human
Applications	WB; ChIP; IF/ICC; FCM; ELISA
Gene Name	KDR
Protein Name	Vascular endothelial growth factor receptor 2
Human Gene Id	3791
Swiss-Prot	P35968
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
Source	Monoclonal, Mouse
Dilution	IP: 2-10µg/mL WB: 1:500-1:2000 IF: 1:200-1:1000 FCM: 1:200-1:400 ELISA: 1:10000
Purification	Affinity purification
Concentration	-
Storage & Stability	-20°C/1 year
Background	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes 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 α V β 3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009].
Subcellular Location.	Cell junction . Endoplasmic reticulum . Cell membrane . Localized with RAP1A at cell-cell junctions (By similarity). Colocalizes with ERN1 and XBP1 in the endoplasmic reticulum in endothelial cells in a vascular endothelial growth factor (VEGF)-dependent manner (PubMed:23529610). .; [Isoform 1]: Cell membrane; Single-pass type I membrane protein. Cytoplasm. Nucleus. Cytoplasmic vesicle. Early endosome. Detected on caveolae-enriched lipid rafts at the cell surface. Is recycled from the plasma membrane to endosomes and back again. Phosphorylation triggered by VEGFA binding promotes internalization and subsequent degradation. VEGFA binding triggers internalization and translocation to the nucleus.; [Isoform 2]: Secreted .; [Isoform 3]: Secreted.
BiowMW	-

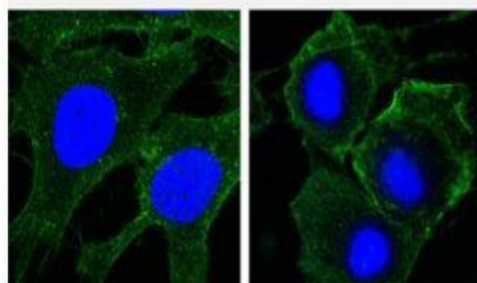
Products Images:



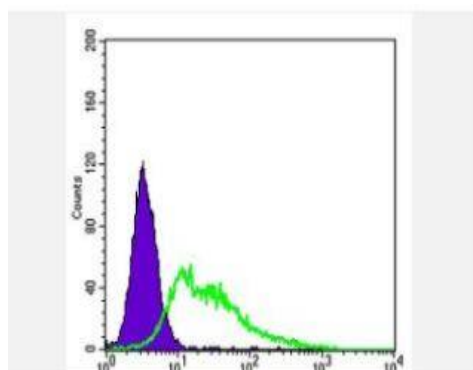
Duan, Yang, et al. "DOT1L promotes angiogenesis through cooperative regulation of VEGFR2 with ETS-1." *Oncotarget* 7.43 (2016): 69674.



Western Blot analysis using Flk-1 Monoclonal Antibody against extracellular domain of human Flk-1 (aa20-764).



Confocal immunofluorescence analysis of HeLa (left) and HepG2 (right) cells using Flk-1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of HepG2 cells using Flk-1 Monoclonal Antibody (green) and negative control (purple).