

Flk-1/VEGFR2 Monoclonal Antibody

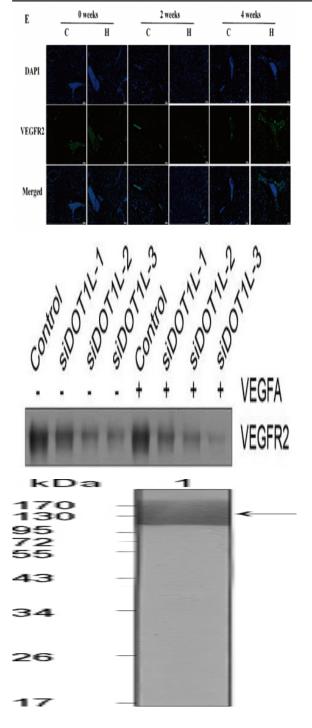
Catalog No :	YM0277
Reactivity :	Human;Fish
Applications :	WB;ChIP;IF;FCM;ELISA
Target :	Flk-1/VEGFR2
Fields :	>>EGFR tyrosine kinase inhibitor resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>Calcium signaling pathway;>>PI3K-Akt signaling pathway;>>VEGF signaling pathway;>>Focal adhesion;>>Proteoglycans in cancer;>>Fluid shear stress and atherosclerosis
Gene Name :	KDR
Protein Name :	Vascular endothelial growth factor receptor 2
Human Gene Id :	3791
Human Swiss Prot	P35968
Mouse Swiss Prot	P35918
Immunogen :	Purified recombinant extracellular fragment of human Flk-1 (aa20-764) fused with hIgGFc tag expressed in HEK293 cells.
Specificity :	Flk-1 Monoclonal Antibody detects endogenous levels of Flk-1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)



Molecularweight :	152kD
Cell Pathway :	Cytokine-cytokine receptor interaction; Endocytosis; VEGF; Focal adhesion;
D Deferences :	1 Plead 2004 Aug 1:104(2):788 04
P References :	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.
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 alphaVbeta3, T- cell protein tyrosine phosphatase, etc Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009],
Function :	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function:Receptor for VEGF or VEGFC. Has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 7 lg- like C2-type (immunoglobulin-like) domains.,subunit:Interacts with MYOF (By similarity). Interacts with SHB; upon VEGF activation. Interacts with HIV-1 Tat.,
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.
Expression :	Detected in cornea (at protein level). Widely expressed.

Products Images



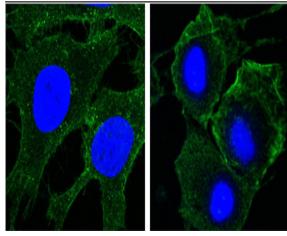


Exposure to Intermittent Environmental Hypoxia Promotes Vascular Remodeling through Angiogenesis in the Liver of Largemouth Bass (Micropterus salmoides) ENVIRONMENTAL SCIENCE & TECHNOLOGY Song Yang IF Fish liver

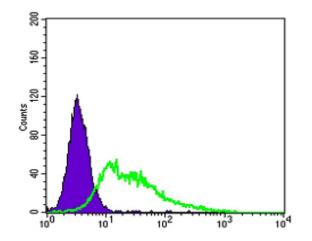
Duan, Yang, et al. "DOT1L promotes angiogenesis through cooperative regulation of VEGFR2 with ETS-1." Oncotarget7.43 (2016): 69674.

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).