Anti-VEGF Receptor 2 Antibody [1G1]

RT1347

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP, IF, IHC-P
Molecular Wt:	200kDa
Clone number:	1G1

Description: Three cell membrane receptor tyrosine kinases, Flt (also designated VEGF-R1), Flk-1 (also designated VEGF-R2) and Flt-4, putatively involved in the growth of endothelial cells, are characterized by the presence of seven immunoglobulinlike sequences in their extracellular domain. These receptors exhibit high degrees of sequence relatedness to each other as well as lesser degrees of relatedness to the class III receptors including CSF-1/Fms, PDGR, SLFR/Kit and Flt-3/Flk-2. Two members of this receptor class, Flt-1 and Flk-1, have been shown to represent high affinity receptors for vascular endothelial growth factors (VEGFs). On the basis of structural similarity to Flt and Flk-1, it has been speculated that Flt-4 might represent a third receptor for either VEGF or a VEGF-related ligand.

Immunogen: Amino acids 1158-1345 mapping at the C-terminus of the Flk-1 of mouse origin.

Positive control: 293T, HUV-EC-C

Subcellular location: Cytoplasm, Nucleus, Secreted, Cell junction Endoplasmic reticulum, Cell membrane, Cytoplasmic vesicle, Early endosome

Database links: SwissProt: P35968 Human

Recommended Dilutions:

WB	1:100-1:1,000
IP	1-2 μg per 100-500 μg of total protein(1 ml of cell lysate)
IF	1:50-1:500
IHC-P	1:50-1:500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4℃

Purity: Protein A affinity purified.

Images

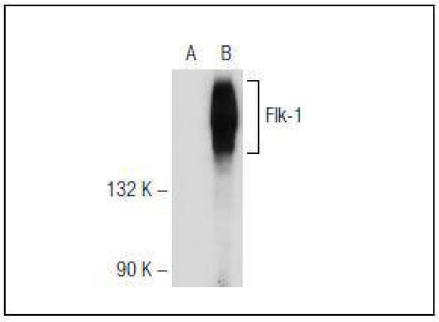

Fig1: Western blot analysis of Flk-1 expression in non-transfected (A) and mouse Flk-1 transfected (B) 293T whole cell lysates.

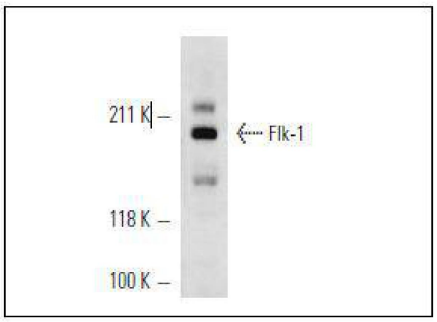

Fig2: Western blot analysis of Flk-1 expression in VEGF-treated HUV-EC-C whole cell lysate.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Liu, F., et al. 2012. Upregulation of microRNA-210 regulates renal angiogenesis mediated by activation of VEGF signaling pathway under ischemia/perfusion injury in vivo and in vitro. Kidney Blood Press. Res. 35: 182-191.
2. Toledo, A.C., et al. 2012. Aerobic exercise attenuates pulmonary injury induced by exposure to cigarette smoke. Eur. Respir. J. 39: 254-264.
3. Kafousi, M., et al. 2012. Immunohistochemical study of the angiogenetic network of VEGF, HIF1α, VEGFR-2 and endothelial nitric oxide synthase (eNOS) in human breast cancer. Pathol. Oncol. Res. 18: 33-41.