

**Product Name: Flk-1/Flt-4 (phospho Tyr1054/Y1063)
Rabbit Polyclonal Antibody
Catalog #: APRab04681**



Summary

Production Name	Flk-1/Flt-4 (phospho Tyr1054/Y1063) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	KDR/FLT4
Alternative Names	KDR; FLK1; VEGFR2; Vascular endothelial growth factor receptor 2; VEGFR-2; Fetal liver kinase 1; FLK-1; Kinase insert domain receptor; KDR; Protein-tyrosine kinase receptor flk-1; CD antigen CD309; FLT4; VEGFR3; Vascular endothelial growth
Gene ID	3791/2324
SwissProt ID	P35968/P35916.The antiserum was produced against synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr1054. AA range:1020-1069

Application

Dilution Ratio	IHC-P 1:100-1:300, ELISA 1:40000, IF-P/IF-F/ICC/IF 1:50-200
-----------------------	---

**Product Name: Flk-1/Flt-4 (phospho Tyr1054/Y1063)
Rabbit Polyclonal Antibody
Catalog #: AP Rab04681**



Molecular Weight

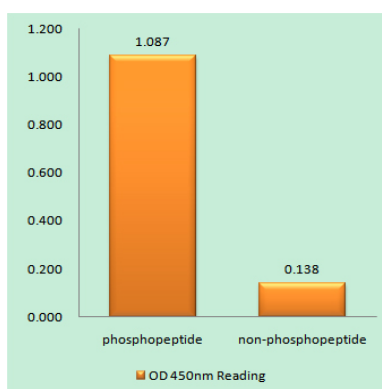
Background

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 $\alpha V\beta 3$, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009], 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 Ig-like C2-type (immunoglobulin-like) domains., subunit: Interacts with MYOF (By similarity). Interacts with SHB; upon VEGF activation. Interacts with HIV-1 Tat.,

Research Area

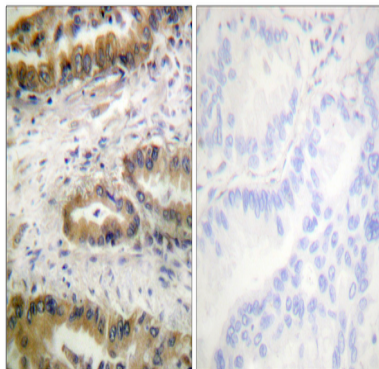
Cytokine-cytokine receptor interaction; Endocytosis; VEGF; Focal adhesion;

Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using VEGFR2 (Phospho-Tyr1054) Antibody

Product Name: Flk-1/Flt-4 (phospho Tyr1054/Y1063)
Rabbit Polyclonal Antibody
Catalog #: APRab04681



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using VEGFR2 (Phospho-Tyr1054) Antibody. The picture on the right is blocked with the phospho peptide.

Note

For research use only.