

Datasheet for ABIN7175380
anti-FLT1 antibody (AA 1048-1328)



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2 Images

Overview

Quantity:	100 µg
Target:	FLT1
Binding Specificity:	AA 1048-1328
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FLT1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Vascular endothelial growth factor receptor 1 protein (1048-1328AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	FLT1
Alternative Name:	FLT1 (FLT1 Products)
Background:	Background: Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of

angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells. Can promote endothelial cell proliferation, survival and angiogenesis in adulthood. Its function in promoting cell proliferation seems to be cell-type specific. Promotes PGF-mediated proliferation of endothelial cells, proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts (in vitro). Has very high affinity for VEGFA and relatively low protein kinase activity, may function as a negative regulator of VEGFA signaling by limiting the amount of free VEGFA and preventing its binding to KDR. Likewise, isoforms lacking a transmembrane domain, such as isoform 2, isoform 3 and isoform 4, may function as decoy receptors for VEGFA. Modulates KDR signaling by forming heterodimers with KDR. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of protein kinase C. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leading to activation of phosphatidylinositol kinase and the downstream signaling pathway. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Phosphorylates SRC and YES1, and may also phosphorylate CBL. Isoform 1 phosphorylates PLCG. Promotes phosphorylation of AKT1 at 'Ser-473'. Promotes phosphorylation of PTK2/FAK1. Isoform 7 has a truncated kinase domain, it increases phosphorylation of SRC at 'Tyr-418' by unknown means and promotes tumor cell invasion.

Aliases: EC 2.7.10.1 antibody, FLT 1 antibody, FLT antibody, Flt-1 antibody, FLT1 antibody, Fms like tyrosine kinase 1 antibody, Fms related tyrosine kinase 1 antibody, Fms related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) antibody, Fms related tyrosine kinase 1 vascular endothelial growth factor/vascular permeability factor receptor antibody, Fms-like tyrosine kinase 1 antibody, FRT antibody, Soluble VEGF receptor 1 14 antibody, Soluble VEGFR1 variant 2 antibody, Soluble VEGFR1 variant 21 antibody, Tyrosine protein kinase FRT antibody, Tyrosine protein kinase receptor FLT antibody, Tyrosine-protein kinase FRT antibody, Tyrosine-protein kinase receptor FLT antibody, Vascular endothelial growth factor receptor 1 antibody, Vascular endothelial growth factor vascular permeability factor receptor antibody, Vascular permeability factor receptor 1 antibody, Vascular permeability factor receptor antibody, VEGFR 1 antibody, VEGFR-1 antibody, VEGFR1 antibody, VEGFR1_HUMAN antibody

UniProt: [P17948](#)

Pathways: [RTK Signaling](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

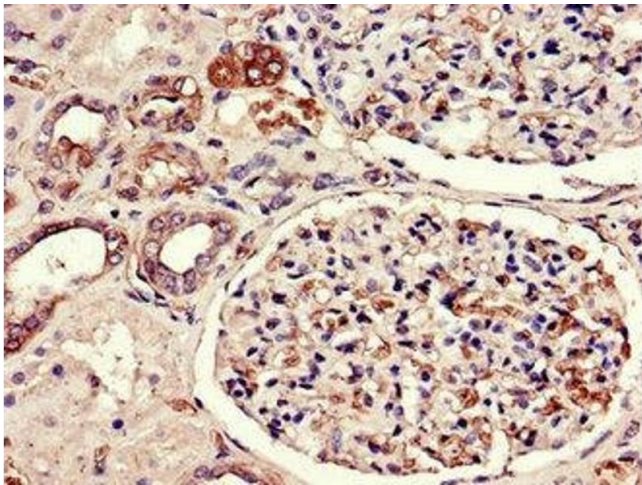
Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

Handling

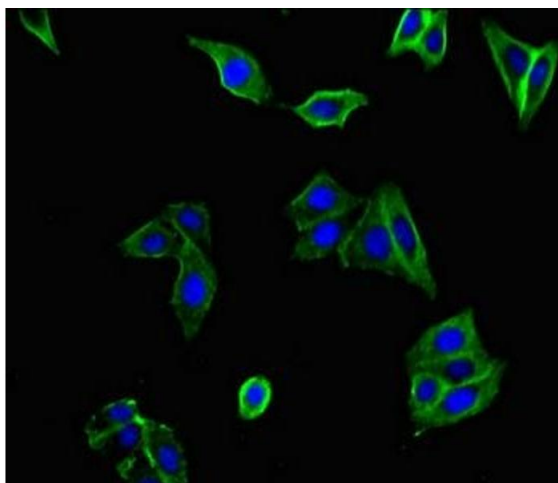
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7175380 at dilution of 1:100



Immunofluorescence

Image 2. Immunofluorescent analysis of HepG2 cells using ABIN7175380 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)