Datasheet for ABIN725795

anti-FLT1 antibody (AA 1162-1260)

6 Images | 4 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	FLT1
Binding Specificity:	AA 1162-1260
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FLT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat VEGFR1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	FLT1

Target Details

Alternative Name:	VEGFR1 (FLT1 Products)
Background:	Synonyms: VEGFR-1, Vascular endothelial growth factor receptor 1, Fms-like tyrosine kinase 1, FLT-1, Tyrosine-protein kinase receptor FLT, Flt1, Vegfr1 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, and proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts. 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. 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 the 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, YES1 and PLCG, and may also phosphorylate CBL. Promotes phosphorylation of AKT1 and PTK2/FAK1 (By similarity).
Gene ID:	54251
UniProt:	P53767
Pathways:	RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200

Application Details

	IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

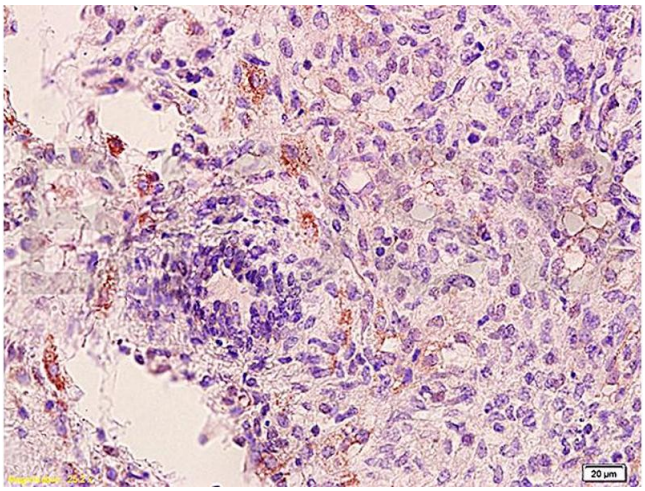
Product cited in:

Liu, Zou, Li, Wang, Wang, Hao, Ke, Li: "RUNX3 modulates hypoxia-induced endothelial-to-mesenchymal transition of human cardiac microvascular endothelial cells." in: **International journal of molecular medicine**, Vol. 40, Issue 1, pp. 65-74, (2017) (PubMed).

Cheng, Xiang, Yang, Ma, Zhao: "Direct Effects of Bevacizumab on Rat Conjunctival Fibroblast." in: **Cell biochemistry and biophysics**, (2015) (PubMed).

Liu, Wang, Wang, Wang, Xue: "Paeoniflorin attenuates A?1-42-induced inflammation and chemotaxis of microglia in vitro and inhibits NF-?B- and VEGF/Flt-1 signaling pathways." in: **Brain research**, Vol. 1618, pp. 149-58, (2015) (PubMed).

Wang, Hao, Shi, Pu, Wang: "Effects of minocycline on apoptosis and angiogenesis-related protein expression in a rat model of intracerebral hemorrhage." in: **Neural regeneration research**, Vol. 7, Issue 8, pp. 595-600, (2015) (PubMed).



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-VEGFR1/FLT1 Polyclonal Antibody, Unconjugated (ABIN725795) at 1:400 followed by conjugation to the secondary antibody and DAB staining

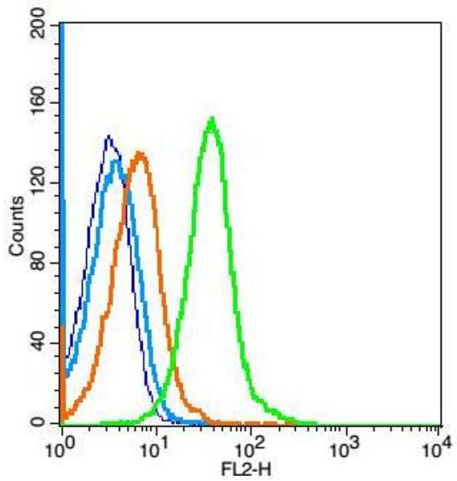
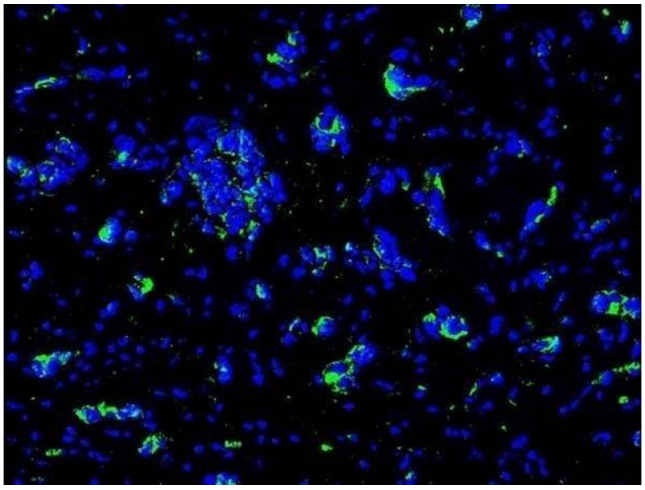


Image 2. Mouse spleen cells probed with VEGFR1 Polyclonal Antibody, unconjugated at 1:100 dilution for 30 minutes compared to control cells (blue) and isotype control (orange)



Immunofluorescence

Image 3. Image kindly submitted by Victor Blanco as part of the Free Sample Program. Frozen mouse brain probed with bs-0170R at 1:100, overnight at 4C.

Please check the product details page for more images. Overall 6 images are available for ABIN725795.