

Product datasheet

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ARG55584 anti-FLT4 / VEGFR3 antibody [818CT12.1.1]

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes FLT4 / VEGFR3

Tested Reactivity Hu

Tested Application FACS, WB

Host Mouse

Clonality Monoclonal
Clone 818CT12.1.1

Isotype IgG2a

Target Name FLT4 / VEGFR3

Species Human

Immunogen Purified His-tagged Human FLT-4 / VEGFR3 protein.

Conjugation Un-conjugated

Alternate Names FLT-4; FLT41; Vascular endothelial growth factor receptor 3; VEGFR3; VEGFR-3; PCL; Tyrosine-protein

kinase receptor FLT4; LMPH1A; EC 2.7.10.1; Fms-like tyrosine kinase 4

Application Instructions

Application table	Application	Dilution
	FACS	1:25
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 2324 Human

Swiss-port # P35916 Human

Gene Symbol FLT4

Gene Full Name fms-related tyrosine kinase 4

Background This gene encodes a tyrosine kinase receptor for vascular endothelial growth factors C and D. The

protein is thought to be involved in lymphangiogenesis and maintenance of the lymphatic endothelium.

Mutations in this gene cause hereditary lymphedema type IA. [provided by RefSeq, Jul 2008]

Function Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential

role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFCmediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades; isoform 2 seems to be less efficient in signal transduction, because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8

at 'Thr-183' and 'Tyr-185', and of AKT1 at 'Ser-473'. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Signaling

Transduction antibody

Calculated Mw 153 kDa

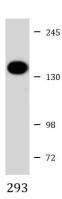
PTM Autophosphorylated on tyrosine residues upon ligand binding. Autophosphorylation occurs in trans, i.e.

one subunit of the dimeric receptor phosphorylates tyrosine residues on the other subunit.

Phosphorylation in response to H(2)O(2) is mediated by a process that requires SRC and PRKCD activity. Phosphorylation at Tyr-1068 is required for autophosphorylation at additional tyrosine residues. Phosphorylation at Tyr-1063 and Tyr-1337 is important for interaction with CRK and subsequent activation of MAPK8. Phosphorylation at Tyr-1230, Tyr-1231 and Tyr-1337 is important for interaction with GRB2 and subsequent activation of the AKT1 and MAPK1/ERK2 and/or MAPK3/ERK1 signaling pathways. In response to endothelial cell adhesion onto collagen, can also be phosphorylated in the absence of FLT4 kinase activity by SRC at Tyr-830, Tyr-833, Tyr-853, Tyr-1063, Tyr-1333, and Tyr-1337.

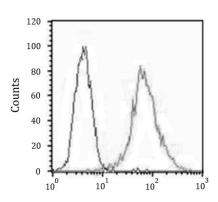
Cellular Localization Cell membrane; Single-pass type I membrane protein. Cytoplasm. Nucleus. Note=Ligand-mediated autophosphorylation leads to rapid internalization Isoform 2: Cell membrane; Single-pass type I

membrane protein



ARG55584 anti-FLT4 / VEGFR3 antibody WB image

Western blot: 35 μg of 293 cell lysate stained with ARG55584 anti-FLT4 / VEGFR3 antibody.



ARG55584 anti-FLT4 / VEGFR3 antibody FACS image

Flow Cytometry: HUVEC cells stained with ARG55584 anti-FLT4 / VEGFR3 antibody (right histogram) at 1:25 dilution or isotype control antibody (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.