



[Go to Product page](#)

Datasheet for ABIN1882290

## anti-FLT4 antibody (AA 1-439)

5 Images

5 Publications

### Overview

Quantity:	400 µL
Target:	FLT4
Binding Specificity:	AA 1-439
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FLT4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	Purified His-tagged VEGFR3 protein was used to produced this monoclonal antibody.
Clone:	818CT12-1-1
Isotype:	IgG2a
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

### Target Details

Target:	FLT4
Alternative Name:	VEGFR3 ( <a href="#">FLT4 Products</a> )
Background:	Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an

## Target Details

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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 VEGFC-mediated 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'.

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Molecular Weight: 152757

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NCBI Accession: [NP\\_002011](#), [NP\\_891555](#)

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UniProt: [P35916](#)

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

## Application Details

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Application Notes: WB: 1:2000. IHC-P: 1:25. IHC-P: 1:25. IHC-P: 1:25. FC: 1:25

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C, -20 °C

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## Handling

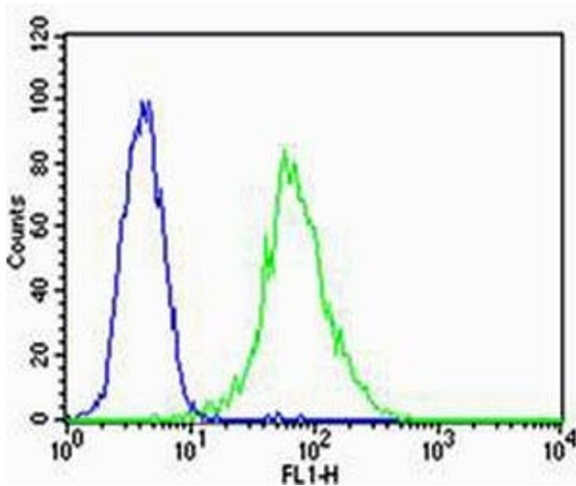
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Expiry Date: 6 months

## Publications

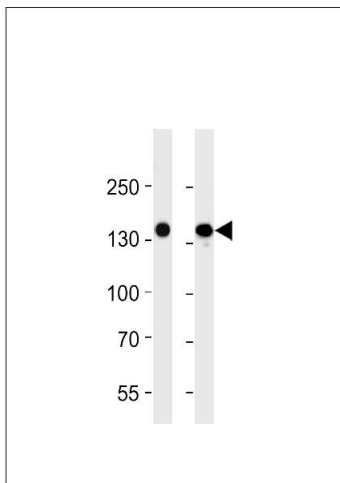
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- Product cited in: Dai, Liu, Liu, Zhang, Wang, Jin, Qian, Wang, Zhao, Wu, Xiong, Chang, Sun, Yang, Hoffman, Liu: "Anti-metastatic Efficacy of Traditional Chinese Medicine (TCM) Ginsenoside Conjugated to a VEGFR-3 Antibody on Human Gastric Cancer in an Orthotopic Mouse Model." in: **Anticancer research**, Vol. 37, Issue 3, pp. 979-986, (2017) ([PubMed](#)).
- Irrthum, Karkkainen, Devriendt, Alitalo, Vikkula: "Congenital hereditary lymphedema caused by a mutation that inactivates VEGFR3 tyrosine kinase." in: **American journal of human genetics**, Vol. 67, Issue 2, pp. 295-301, (2000) ([PubMed](#)).
- Galland, Karamysheva, Pebusque, Borg, Rottapel, Dubreuil, Rosnet, Birnbaum: "The FLT4 gene encodes a transmembrane tyrosine kinase related to the vascular endothelial growth factor receptor." in: **Oncogene**, Vol. 8, Issue 5, pp. 1233-40, (1993) ([PubMed](#)).
- Pajusola, Aprelikova, Korhonen, Kaipainen, Pertovaara, Alitalo, Alitalo: "FLT4 receptor tyrosine kinase contains seven immunoglobulin-like loops and is expressed in multiple human tissues and cell lines." in: **Cancer research**, Vol. 52, Issue 20, pp. 5738-43, (1992) ([PubMed](#)).
- Galland, Karamysheva, Mattei, Rosnet, Marchetto, Birnbaum: "Chromosomal localization of FLT4, a novel receptor-type tyrosine kinase gene." in: **Genomics**, Vol. 13, Issue 2, pp. 475-8, (1992) ([PubMed](#)).



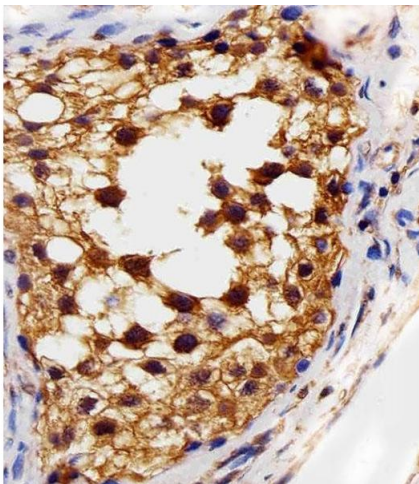
### Flow Cytometry

**Image 1.** Flow cytometric analysis of HUVEC cells using VEGFR3(green, Cat (ABIN1882290 and ABIN2843609)) compared to an isotype control of mouse IgG2a(blue). (ABIN1882290 and ABIN2843609) was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.



### Western Blotting

**Image 2.** VEGFR3 Antibody (ABIN1882290 and ABIN2843609) western blot analysis in 293 and A549 cell line lysates (35 µg/lane). This demonstrates the VEGFR3 antibody detected the VEGFR3 protein (arrow).



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemical analysis of paraffin-embedded H. testis section using VEGFR3. was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN1882290.