BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-VEGFR3 Antibody

Catalog Number: M01276-1

About FLT4

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 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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Overview

Product Name	Anti-VEGFR3 Antibody
Reactive Species	Human
Description	Boster Bio Anti-VEGFR3 Antibody (Catalog # M01276-1). Tested in IHC-P, Flow Cytometry, WB application(s). This antibody reacts with Human.
Application	Flow Cytometry, IHC-P, WB
Clonality	Monoclonal 818CT12.1.1
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Mouse
Uniprot ID	P35916

Technical Details

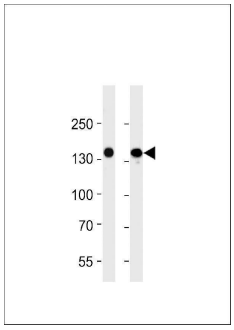
BOSTER
antibody and ELISA experts

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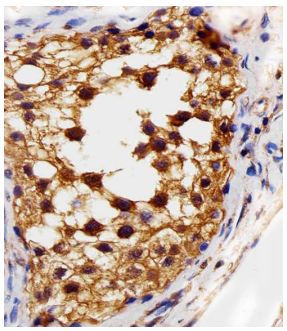
Immunogen	Purified His-tagged VEGFR3 protein was used to produced this monoclonal antibody.
Predicted Reactive Species	Bovine, Chicken, Horse, Monkey, Pig, Sheep, Xenopus
Isotype	IgG2a
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Suggested Dilutions	WB: 1:2000 IHC-P: 1:25 FC: 1:25

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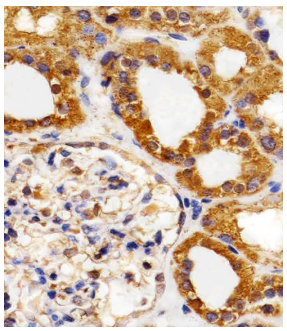
Anti-VEGFR3 Antibody (M01276-1) Images



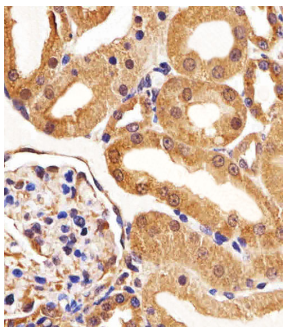
VEGFR3 Antibody western blot analysis in 293 and A549 cell line lysates (35ug/lane).This demonstrates the VEGFR3 antibody detected the VEGFR3 protein (arrow).



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.



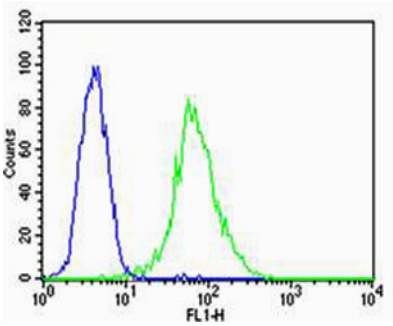
Immunohistochemical analysis of paraffin-embedded H. kidney section using VEGFR3. was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded R. kidney section using VEGFR3. NA 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.

Flow cytometric analysis of HUVEC cells using VEGFR3(green, Cat# M01276-1) compared to an isotype control of mouse IgG2a(blue). M01276-1 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody.

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1 Publications Citing This Product

1. PubMed ID: -, Li,X.,Song,D.,Liu,H.,Wang,Z.,Ma,G.,Yu,M. ... Zeng,Y.(2021).Expression levels of VEGF-C and VEGFR-3 in renal cell carcinoma and their association with lymph node metastasis.Experimental and Therapeutic Medicine, 21,554.https://doi.org/10.3892/ etm.2021.9986

Visit bosterbio.com/anti-vegfr3-antibody-m01276-1-boster.html to see all 1 publications.

Anti-VEGFR3 Antibody

For Research Use Only. Not for use in diagnostic procedures.