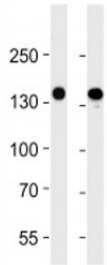
VEGFR3 Antibody / FLT4 [clone 818CT12.1.1] (F52354)

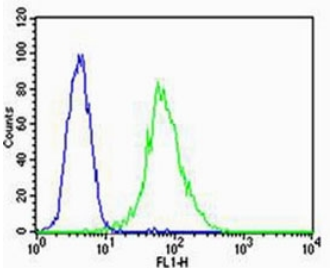
Catalog No.	Formulation	Size
F52354-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52354-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

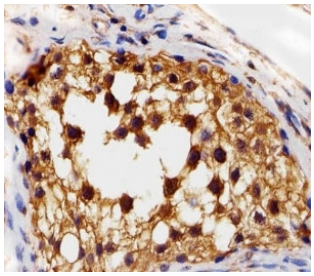
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	818CT12.1.1
Purity	Purified
UniProt	P35916
Localization	Cytoplasmic, nuclear, cell membrane
Applications	Flow Cytometry : 1:25 IHC (Paraffin) : 1:25 Western Blot : 1:2000
Limitations	This VEGFR3 antibody is available for research use only.



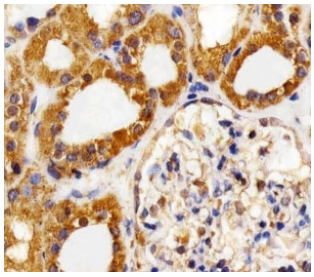
VEGFR3 antibody western blot analysis in 293 and A549 lysate. Predicted molecular weight ~153 kDa (long), ~147 kDa (short) and ~93 kDa (sVegfr3).



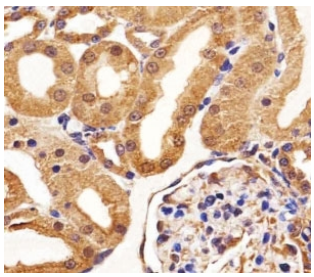
Flow cytometric analysis of HUVEC cells using VEGFR3 antibody (green) and an isotype control of mouse IgG2a (blue); Ab was diluted at 1:25 dilution.



Immunohistochemical analysis of paraffin-embedded human testis section using VEGFR3 antibody at 1:25 dilution.



Immunohistochemical analysis of paraffin-embedded human kidney section using VEGFR3 antibody at 1:25 dilution.



Immunohistochemical analysis of paraffin-embedded rat kidney section using VEGFR3 antibody at 1:25 dilution.

Description

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'.

Application Notes

Titration of the VEGFR3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Purified His-tagged protein was used to produced this monoclonal VEGFR3 antibody.

Storage

Aliquot the VEGFR3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com