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PE Rabbit anti-Mouse VEGFR3/Flt-4

Catalog No.: A28963

Basic Information

Observed MW

Calculated MW

Category
Primary antibody

Applications
FC

Cross-Reactivity
Mouse

CloneNo number
ARC83346

Conjugate
PE. Ex:565nm. Em:574nm.

Background

Vascular endothelial growth factor C (VEGF-C) and VEGF-D constitute a subfamily of vascularogenic VEGF growth factors. VEGF-C is combined into a 58 kDa molecule, consisting of a VEGF homologous domain (VHD), with N-terminal and C-terminal propeptides on both sides. The precursor protein undergoes covalent dimerization and progressive proteolysis to generate a ligand with enhanced affinity for VEGF R3/Flt-4. The fully processed VEGF-C contains only 21 kDa VHD and can additionally bind and activate VEGF R2/KDR/Flk-1. The fully processed human VEGF-C has 98% identical amino acid sequence to that of mouse and rat VEGF-C. The interaction of VEGF-C with VEGF R3 is crucial for lymphangiogenesis (5-8). VEGF-C and VEGF R3 are usually co-expressed during lymphangiogenesis, embryonic development, and various pathological conditions. Overexpression of VEGF-C in tumor cells can induce tumor lymphocyte proliferation, leading to increased lymph flow and metastasis to regional lymph nodes. It also induces physiological and tumor-specific angiogenesis and sprouting through interaction with VEGF R2.

Recommended Dilutions

FC	≤0.5 μg per million cells in 100 μl volume

Immunogen Information

Gene ID
14257

Swiss Prot
P35917

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
Chy; Flt-4; VEGFR-3; VEGFR3

Contact

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Product Information

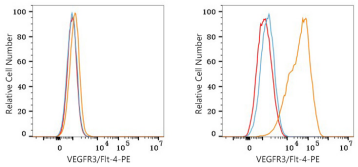
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Flow cytometry: 1X10^6 NIH/3T3 cells (negative control,left) and bEnd.3 cells (right) were surface-stained with PE Rabbit anti-Mouse VEGFR3/Flt-4 mAb (A28963,0.5 µg,orange line) or PE Rabbit IgG isotype control (A24172,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line).