

PE Rabbit anti-Mouse VEGFR3/Flt-4 mAb

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

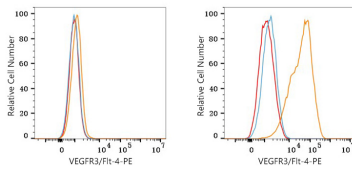
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 NIH/3T3 cells (negative control, left) and bEnd.3 cells (right) were surface-stained with PE Rabbit anti-Mouse VEGFR3/Fit-4 mAb (A28963, 0.5 μ g, orange line) or PE Rabbit IgG isotype control (A24172, 5 μ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).