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Anti-Mouse VEGF Receptor 3 Functional Grade Purified

Catalog Number: 16-5988
Also Known As:VEGFR3, VEGF R3, VEGF receptor 3, Flt-4, Flt4, vascular endothelial growth factor receptor 3
RUO: For Research Use Only

Product Information

Contents: Anti-Mouse VEGF Receptor 3 Functional Grade Purified
REF **Catalog Number:** 16-5988
Clone: AFL4
Concentration: 1 mg/ml
Host/Isotype: Rat IgG2a, κ
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.
Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

The AFL4 monoclonal antibody reacts with the mouse VEGF receptor-3, also known as Flt-4. This 195 kDa molecule was identified as an endothelial-specific member of the receptor tyrosine kinase (RTK) family. During early embryogenesis all endothelial cells express VEGFR-3, while in the adult tissues, VEGFR-3 expression disappears from the vascular endothelial cells and is observed only on the lymphatic endothelium. However, VEGFR-3 expression is induced in the adult tissue upon tumor implementation suggesting an important role for this receptor in the tumor angiogenesis. VEGF-C and VEGF-D bind to and activate VEGFR-3. AFL4 is an antagonist mAb.

Applications Reported

The AFL4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The AFL4 antibody has been tested by flow cytometric analysis of *in vitro* differentiated mouse endothelial cells. In brief, mouse ES cells were incubated on collagen IV matrix for 4 days and subsequently stimulated with VEGF under serum free conditions to induce further differentiation. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kubo, H., T. Fujiwara, et al. (2000). "Involvement of vascular endothelial growth factor receptor-3 in maintenance of integrity of endothelial cell lining during tumor angiogenesis." Blood 96(2): 546-53.
Saaristo, A., T. A. Partanen, et al. (2000). "Vascular endothelial growth factor-C and its receptor VEGFR-3 in the nasal mucosa and in nasopharyngeal tumors." Am J Pathol 157(1): 7-14.
Paavonen, K., P. Puolakkainen, et al. (2000). "Vascular endothelial growth factor receptor-3 in lymphangiogenesis in wound healing." Am J Pathol 156(5): 1499-504.
Larrivee, B. and A. Karsan (2000). "Signaling pathways induced by vascular endothelial growth factor (review)." Int J Mol Med 5(5): 447-56.

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