IBL Data Sheet

Code No. 18415

Anti-Human
VEGF-C (103) Rabbit IgG Affinity Purify

Volume : 100 µg

Introduction : The vascular endothelial growth factor family has recently been expanded by the isolation of two new VEGF-related factors, VEGF-B and VEGF-C. The physiological functions of these factors are largely unknown. Recently, it is reported that the cloning and characterization of mouse VEGF-C, which is produced as a disulfide-linked dimer of 415 amino acid residue polypeptides, sharing an 85% identity with the human VEGF-C amino acid sequence. In in situ hybridization, mouse VEGF-C mRNA expression was detected in mesenchymal cells of post implantation mouse embryos, particularly in the regions where the lymphatic vessels undergo sprouting from embryonic veins, such as the perimetanephric, axillary and jugular regions. In addition, the developing mesenterium, which is rich in lymphatic vessels, showed strong VEGF-C expression. VEGF-C was also highly expressed in adult mouse lung, heart and kidney, where VEGFR-3 was also prominent. The pattern of expression of VEGF-C in relation to its major receptor VEGFR-3 during the sprouting of the lymphatic endothelium in embryos suggests a paracrine mode of action and that one of the functions of VEGF-C may be in the regulation of angiogenesis of the lymphatic vasculature.

Antigen : Synthetic peptide of the N-terminal part of human VEGF-C

Purification : Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave treatment (10 mM citrate buffer, pH 6.0). The optimal concentration is about 5 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 0.1 - 5 µg /mL.

Reference :
1. Joukov V, Pajusola K., Kaipainen A., et al. A novel vascular endothelial growth factor, VEGF-C, is a ligand for Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases. Embo. J. (1996) 15, 1751

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