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VEGF Antibody

Vascular Endothelial Cell Growth Factor, Mouse Anti-Human
ABM0684

Product Overview

Name	VEGF Antibody

Description

Vascular Endothelial Cell Growth Factor, Mouse Anti-Human

Synonyms

VEGF-C, Vascular endothelial growth factor C, VRP, Flt4 ligand, Flt4-L, Vascular endothelial growth factor-related protein, VEGFC.

Introduction

VEGF-C, also known as Vascular Endothelial Growth Factor Related Protein (VRP), is a recently discovered VEGF growth factor family member that is most closely related to VEGF-D. Human VEGF-C cDNA encodes a pre-pro-protein of 416 amino acids residues. It is almost identical to the mouse VEGF-C protein. Similar to VEGF-D, VEGF-C has a VEGF homology domain spanning the middle third of the precursor molecule and long N- and C-terminal extensions. In adults, VEGF-C is highly expressed in heart, placenta, ovary and small intestine. Recombinant human VEGF-C, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers. This protein is a ligand for both VEGFR-2/KDR and VEGFR-3/FLT-4. Since VEGFR-3 is strongly expressed in lymphatic endothelial cells, it has been postulated that VEGF-C is involved in the regulation of the growth and/or differentiation of lymphatic endothelium. Although recombinant human VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A.

Source

Sf9, Insect Cells.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Each mg of VEGF-C Human contains 50mg BSA and 1xPBS as buffer.

Stability

Lyophilized VEGF-C although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF-C should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Biological Activity

Measured by its ability to induce to the VEGFR-3/FLT-4 receptor phosphorylation inPAEC/VEGFR3 cells and VEGFC induced proliferation of primary HDLEC cells.

Solubility

It is recommended to reconstitute the lyophilized VEGF-C in sterile 18M?-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

VEGF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.