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Rabbit Anti-VEGF-C/AF350 Conjugated antibody

SL20740R-AF350

Product Name	Anti-VEGF-C/AF350
Chinese Name	AF350 标记的血管内皮生长因子 C 型抗体
Alias	Vascuoar endothelial growth factor-C; AW228853; Flt4 ligand; Flt4-L; VEGF2; VEGFC; VRP; VEGFC_HUMAN.
Research Area	Cell biology vascular endothelial cell
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Pig,Horse)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	13/46kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human VEGF-C
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Vascular endothelial growth factors (VEGFs), also known as vasculotropins, are a family of closely related growth factors having a conserved pattern of eight cysteine residues and sharing common VEGF receptors. VEGFs stimulate the proliferation of endothelial cells, induce angiogenesis, promote cell migration, increase vascular permeability, and inhibit apoptosis. The

mitogenic activity of VEGFs appears to be mediated by specific VEGF receptors. The target cell specificity of VEGF is restricted to vascular endothelial cells. Vascular Endothelial Growth Factor C (VEGFC) is a member of the VEGF subfamily of PDGF-related growth factors. It is the ligand for Flt4 (VEGFR3) and KDR (VEGFR2). VEGFC binds Flt4 and induces tyrosine autophosphorylation of VEGFR3 and VEGFR2. VEGFC also stimulates the migration of bovine capillary endothelial cells in collagen gel. It is a specific growth factor for the lymphatic vascular system and mediates lymphangiogenesis. VEGFC is abundantly expressed in heart and skeletal muscle. Other tissues such as lung and kidney also express VEGFC.

Subunit:
Homodimer; non-covalent and antiparallel.

Subcellular Location:
Secreted.

Tissue Specificity:
Spleen, lymph node, thymus, appendix, bone marrow, heart, placenta, ovary, skeletal muscle, prostate, testis, colon and small intestine and fetal liver, lung and kidney, but not in peripheral blood lymphocyte.

Similarity:
Belongs to the PDGF/VEGF growth factor family.

Database links:

Entrez Gene: 7424 Human

Entrez Gene: 22341 Mouse

Entrez Gene: 114111 Rat

Omim: 601528 Human

SwissProt: P49767 Human

SwissProt: P97953 Mouse

SwissProt: O35757 Rat

Unigene: 435215 Human

Unigene: 1402 Mouse

Unigene: 6913 Rat

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Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.