VEGFC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VEGFC, Polyclonal Antibody
Full Product Name	VEGFC Rabbit pAb
Product Gene Name	anti-VEGFC antibody
Product Synonym Names	VRP; Flt4-L; LMPH1D
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	46kDa
OMIM	601528
3D Structure	ModBase 3D Structure for P49767
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 200-300 of human VEGFC (NP_005420.1).
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VEGFC antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-VEGFC antibody	WB: 1:500-1:1000 IHC: 1:50-1:100
Related Product Information for anti-VEGFC antibody	Growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates KDR/VEGFR2 and FLT4/VEGFR3 receptors.
Other Notes	Small volumes of anti-VEGFC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VEGFC purchase	MBS8548384 is an antibody targeting VEGFC. Also known as VEGFC Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VEGFC. It may not necessarily be applicable to this product.

NCBI GI #	4885653
NCBI GeneID	7424

NCBI Accession #	NP_005420.1
UniProt Primary Accession #	P49767
UniProt Related Accession #	P49767
GenBank Nucleotide #	NP_005420.1
NCBI Official Full Name	vascular endothelial growth factor C preproprotein
NCBI Official Synonym Full Names	vascular endothelial growth factor C
NCBI Official Symbol	VEGFC
NCBI Official Synonym Symbols	VRP; Flt4-L; LMPH1D; LMPHM4
UniProt Protein Name	Vascular endothelial growth factor C
UniProt Synonym Protein Names	Flt4 ligand; Flt4-L; Vascular endothelial growth factor-related protein
Protein Family	Vascular endothelial growth factor
UniProt Gene Name	VEGFC
UniProt Synonym Gene Names	VEGF-C; Flt4-L; VRP
UniProt Entry Name	VEGFC_HUMAN
NCBI Protein Information	vascular endothelial growth factor C
NCBI Summary for VEGFC	The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. The encoded protein promotes angiogenesis and endothelial cell growth, and can also affect the permeability of blood vessels. The proprotein is further cleaved into a fully processed form that can bind and activate VEGFR-2 and VEGFR-3 receptors. [provided by RefSeq, Apr 2014]
UniProt Comments for VEGFC	VEGFC: Growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors. Homodimer; non-covalent and antiparallel. 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. Belongs to the PDGF/VEGF growth factor family. Protein type: Motility/polarity/chemotaxis; Cell cycle regulation; Secreted, signal peptide; Secreted; Cytokine Chromosomal Location of Human Ortholog: 4q34.3 Cellular Component: extracellular space; membrane; extracellular region Molecular Function: protein binding; growth factor activity; vascular endothelial growth factor receptor 3 binding; chemoattractant activity Biological Process: response to drug; substrate-bound cell migration; platelet activation; positive regulation of neuroblast proliferation; positive regulation of blood vessel endothelial cell migration; signal transduction; positive regulation of protein amino acid autophosphorylation; induction of positive chemotaxis; negative regulation of cell proliferation; organ morphogenesis; positive regulation of angiogenesis; positive regulation of peptidyl-tyrosine phosphorylation; morphogenesis of embryonic epithelium; platelet degranulation; positive regulation of protein secretion; positive chemotaxis; positive regulation of cell division; regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of cell proliferation; angiogenesis; negative regulation of blood pressure; vascular endothelial growth factor receptor signaling pathway; positive regulation of cell-matrix adhesion; blood coagulation; positive regulation of epithelial cell proliferation Disease: Lymphedema, Hereditary, Id

Research Articles on VEGFC	**1.** This study suggests that the high expression of MMP-9 and VEGF-C could act as markers for the tumor presence in breast cancer. In addition, this study recommends that expression of MMP-9 and VEGF-C was significantly associated with lymph node status and may provide valuable diagnosis of lymph node metastasis in breast cancer patients.
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