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VEGFC (VEGF3) Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP2042b

Specification

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Product Information

Primary Accession P49767

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Additional Information

Gene ID 7424

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2042b was selected from the Center region of human VEGF3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Protein Information

Name VEGFC

Function
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.

Cellular Location
Secreted.

Tissue Location
Expressed in the spleen (PubMed:9247316, PubMed:8700872). Expressed in the lymph node,

thymus, appendix and bone marrow (PubMed:9247316). Expressed in the heart, placenta, skeletal muscle, ovary and small intestine (PubMed:8700872, PubMed:8617204) Expressed in the prostate, testis and colon (PubMed:8700872)

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Images

VEGFC (VEGF3) Antibody (Center) Blocking peptide - Background

VEGF3 is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis and endothelial cell growth, and can also affect the permeability of blood vessels. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor D.

VEGFC (VEGF3) Antibody (Center) Blocking peptide - References

Byeon, J.S., et al., J. Gastroenterol. Hepatol. 19(6):648-654 (2004).Su, J.L., et al., Cancer Res. 64(2):554-564 (2004).Yan, C., et al., World J. Gastroenterol. 10(6):783-790 (2004).Hsieh, C.Y., et al., J. Biomed. Sci. 11(2):249-259 (2004).Liu, X.E., et al., World J. Gastroenterol. 10(3):352-355 (2004).