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VEGFC (VEGF3) Antibody (Center M263)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2042C

Product Information

Application	WB, IHC-P, E
Primary Accession	P49767
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46883
Antigen Region	248-277

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	This VEGFC (VEGF3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 248-277 amino acids from the Central region of human VEGFC (VEGF3).
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	VEGFC (VEGF3) Antibody (Center M263) is for research use only and not for use in diagnostic or therapeutic procedures.

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

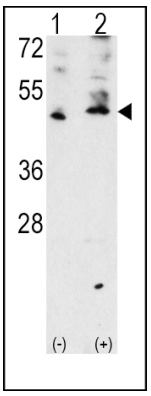
Background

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.

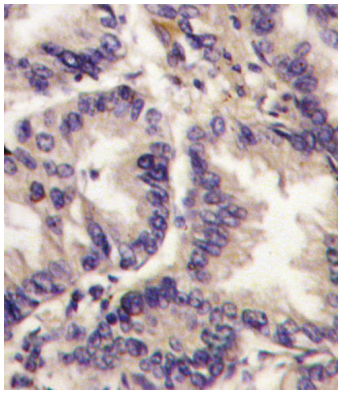
References

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).

Images



Western blot analysis of VEGF3 Antibody (Center) polyclonal antibody(Cat.#AP2042c)(arrow). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the VEGF3 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with VEGF3 Antibody (Center M263)(Cat.#AP2042c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- Podoplanin Expression Correlates with Disease Progression in Mycosis Fungoides.