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VEGFC Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AW5055

Product Information

Application	WB
Primary Accession	P49767
Other Accession	NP_005420.1
Reactivity	Mouse, Rat, Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	46883
Isotype	IgG1,K
Antigen Source	HUMAN

Additional Information

Gene ID	7424
Antigen Region	1-270
Other Names	VEGFC; Vascular endothelial growth factor C; Flt4 ligand; Vascular endothelial growth factor-related protein
Dilution	WB~~1:2000
Target/Specificity	This VEGFC monoclonal antibody is generated from mouse immunized with VEGFC recombinant protein.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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 Antibody 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)

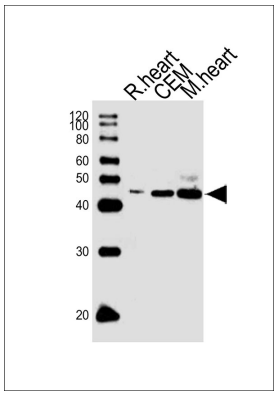
Background

The protein encoded by this gene 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. [provided by RefSeq].

References

Chen, X., et al. Cancer Sci. 101(11):2384-2390(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Deguchi, K., et al. Anticancer Res. 30(6):2361-2366(2010)
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :

Images



Western blot analysis of lysates from rat heart tissue,CEM cell line, mouse heart tissue(from left to right), using VEGFC Antibody(Cat. #AW5055). AW5055 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.