



Polyclonal Anti- Vascular Endothelial Growth Factor D, VEGF-D (Magnetic Bead Conjugate)

Catalogue No. PA1332-M	
	Immunogen
Lot No. 013101223264	A synthetic peptide corresponding to a sequence at the middle region
	of human VEGFD (101-115aa), identical to the related rat sequence.
Ig type rabbit IgG	Purity
	Immunogen affinity purified.
Size 100µg/vial	Contents
	Each vial contains $1mg/ml$ Magnetic Bead in PBS, pH 7.2, 0.05mg NaN ₃ .
Specificity	
Human.	Storage
No cross reactivity with other	Store at 4°C for frequent use.
proteins.	Description
	This Antagene antibody is immobilized by the covalent reaction of
Recommended application	hydrazinonicotinamide-modified antibody with formylbenzamide-modified
ImmunoPrecipitation (IP)	magnetic beads. It is useful for immunoprecipitation.

BACKGROUND

C-fos induced growth factor (FIGF) (or vascular endothelial growth factor D, VEGF-D) is a vascular endothelial growth factor that in humans is encoded by the *FIGF* gene. The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. Analyzing by Northern blotting, Yamada et al. (1997) symbolized VEGFD, was expressed as a 2.2-kb transcript with highest expression in lung, heart, small intestine, and fetal lung, and lower levels in skeletal muscle, colon, and pancreas. And Achen et al. (1998) concluded that VEGFD was most closely related to VEGFC by virtue of the presence of N- and C-terminal extensions that were not found in other VEGF family members. Stacker et al. (2001) showed that VEGFD can induce tumor angiogenesis through VEGFR2 and tumor lymphangiogenesis.

REFERENCE

- 1. Yamada, Y., Nezu, J., Shimane, M., Hirata, Y. Molecular cloning of a novel vascular endothelial growth factor, VEGF-D. Genomics 42: 483-488, 1997.
- Achen, M. G., Jeltsch, M., Kukk, E., Makinen, T., Vitali, A., Wilks, A. F., Alitalo, K., Stacker, S. A. Vascular endothelial growth factor D (VEGF-D) is a ligand for the tyrosine kinases VEGF receptor 2 (Flk1) and VEGF receptor 3 (Flt4). Proc. Nat. Acad. Sci. 95: 548-553, 1998.
- Stacker, S. A., Caesar, C., Baldwin, M. E., Thornton, G. E., Williams, R. A., Prevo, R., Jackson, D. G., Nishikawa, S., Kubo, H., Achen, M. G. VEGF-D promotes the metastatic spread of tumor cells via the lymphatics. Nature Med. 7: 186-191, 2001.