



## Product Information Sheet

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### **Polyclonal Anti-Vasculoar endothelial growth factor, VEGF (Magnetic Bead Conjugate)**

**Catalogue No.** PA1080-M

**Immunogen**

A synthetic peptide corresponding to a sequence near the N-terminal end of VEGF of human origin, identical to the related rat sequences.

**Lot No.** 03A01

**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<sub>3</sub>.

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Storage**

Store at 4 °C for frequent use.

**Recommended application**

ImmunoPrecipitation (IP)

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### **BACKGROUND**

VEGF, a homodimeric glycoprotein of relative molecular mass 45,000, is the only mitogen that specifically acts on endothelial cells. It may be a major regulator of tumor angiogenesis in vivo. Vascular endothelial growth factor is a mitogen primarily for vascular endothelial cells. It is, however, structurally related to platelet-derived growth factor. VEGF shares homology with the PDGF A chain and B chain, including conservation of all 8 cysteines found in PDGFA and PDGFB. VEGF gene contains 8 exons. Vascular endothelial growth factor (VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. VEGF regulates haematopoietic stem cell survival by an internal autocrine loop mechanism. Vascular endothelial growth factor (VEGF) stimulates neurogenesis in vitro and in vivo.

#### **REFERENCE**

1. Lee, C. G.; Link, H.; Baluk, P.; Homer, R. J.; Chapoval, S.; Bhandari, V.; Kang, M. J.; Cohn, L.; Kim, Y. K.; McDonald, D. M.; Elias, J. A. : Vascular endothelial growth factor (VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. *Nature Med.* 10: 1095-1103, 2004.
2. Gerber, H.-P.; Malik, A. K.; Solar, G. P.; Sherman, D.; Liang, X. H.; Meng, G.; Hong, K.; Marsters, J. C.; Ferrara, N. : VEGF regulates haematopoietic stem cell survival by an internal autocrine loop mechanism. *Nature* 417: 954-958, 2002.
3. Jin, K.; Zhu, Y.; Sun, Y.; Mao, X. O.; Xie, L.; Greenberg, D. A. : Vascular endothelial growth factor (VEGF) stimulates neurogenesis in vitro and in vivo. *Proc. Nat. Acad. Sci.* 99: 11946-11950, 2002.

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