



## Product Information Sheet

### Polyclonal Anti- CD34 (Magnetic Bead Conjugate)

**Catalogue No.** PA1334-M

**Lot No.** 0131012223499

**Ig type** rabbit IgG

**Size** 100µg/vial

**Specificity**

Human, mouse, rat

No cross reactivity with other proteins.

**Recommended application**

*ImmunoPrecipitation (IP)*

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminal of human CD34 (366-382 aa), identical to the related mouse and rat sequence.

**Purity**

Immunogen affinity purified.

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**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

CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 KD. CD34 is expressed in humans in hematopoietic stem cells, vascular endothelium, and blasts from 30% of patients with acute myeloid and lymphocytic leukemia. The human CD34 gene spans 26 kb and has 8 exons, a structure quite similar to that of the murine gene.<sup>1</sup> By Southern blot analysis of DNA from a panel of human x mouse somatic cell hybrids using a CD34 cDNA probe demonstrate that the gene for CD34 is located on human chromosome 1 in the 1q12----qter region.<sup>2</sup> CD34 plays an important role in the formation of progenitor cells during both embryonic and adult hematopoiesis.<sup>3</sup>

### REFERENCE

- 1、 Satterthwaite, A. B., Burn, T. C., Le Beau, M. M., Tenen, D. G. Structure of the gene encoding CD34, a human hematopoietic stem cell antigen. *Genomics* 12: 788-794, 1992.
- 2、 Tenen, D. G., Satterthwaite, A. B., Borson, R., Simmons, D., Eddy, R. L., Shows, T. B. Chromosome 1 localization of the gene for CD34, a surface antigen of human stem cells. *Cytogenet. Cell Genet.* 53: 55-57, 1990.
- 3、 Cheng, J., Baumhueter, S., Cacalano, G., Carver-Moore, K., Thibodeaux, H., Thomas, R., Broxmeyer, H. E., Cooper, S., Hague, N., Moore, M., Lasky, L. A. Hematopoietic defects in mice lacking the sialomucin CD34. *Blood* 87: 479-490, 1996.