



### Polyclonal Anti-CD133 (Sephacrose Bead Conjugate)

**Catalogue No.** PA1217-S

**Lot No.** 09C01

**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 CD133, different from the related rat sequence by seven amino acids.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

### BACKGROUND

CD133, is a glycoprotein also known in humans and rodents as Prominin 1 (PROM1).<sup>1</sup> It is the founding member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM), which specifically localizes to cellular protrusions. The gene of CD133 is located in 4p15.3. And most of the CD133 gene is contained in 23 exons distributed over more than 50 kb of genomic sequence.<sup>2</sup> CD133 is expressed in hematopoietic stem cells, endothelial progenitor cells, glioblastomas, neuronal and glial stem cells and some other cell types.<sup>3,4</sup>

### REFERENCE

1. Corbeil D, Fargeas C, Huttner W (2001). "Rat prominin, like its mouse and human orthologues, is a pentaspan membrane glycoprotein". *Biochem Biophys Res Commun* 285 (4): 939–44.
2. Maw, M. A.; Corbeil, D.; Koch, J.; Hellwig, A.; Wilson-Wheeler, J. C.; Bridges, R. J.; Kumaramanickavel, G.; John, S.; Nancarrow, D.; Roper, K.; Weigmann, A.; Huttner, W. B.; Denton, M. J. : A frameshift mutation in prominin (mouse)-like 1 causes human retinal degeneration. *Hum. Molec. Genet.* 9: 27-34, 2000.
3. Corbeil D, Röper K, Hellwig A, Tavian M, Miraglia S, Watt S, Simmons P, Peault B, Buck D, Huttner W (2000). "The human AC133 hematopoietic stem cell antigen is also expressed in epithelial cells and targeted to plasma membrane protrusions". *J Biol Chem* 275 (8): 5512–20.
4. Shmelkov S, St Clair R, Lyden D, Rafii S (2005). "AC133/CD133/Prominin-1". *Int J Biochem Cell Biol* 37 (4): 715–9.

**For Research Use Only not for diagnostic and clinical use**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)