Product Informatiion Sheet

Polyclonal Anti-*NOTCH1* (Magnetic Bead Conjugate)

Catalogue No. PA1217-M

Lot No. 09C01

Ig type: rabbit IgG1

Size: 100μg/Vial

Specificity

Human, mouee, 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

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3.

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

CD133, is a glycoprotein also known in humans and rodents as Prominin 1 (PROM1).[1] 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.[2] CD133 is expressed in hematopoietic stem cells, endothelial progenitor cells, glioblastomas, neuronal and glial stem cells and some other cell types.[3,4]

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.