



Product Information Sheet

Polyclonal Anti-CD133

Catalogue No. PA1217

Lot No. 09C01

Ig type rabbit IgG

Size 100µg/vial

Specificity

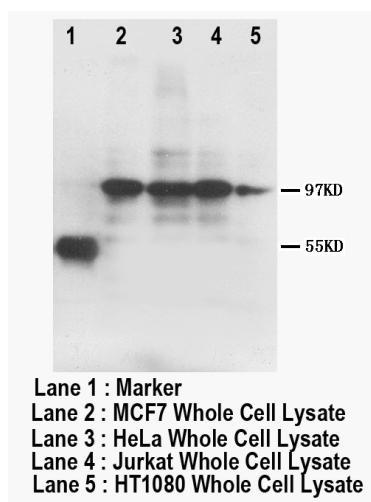
Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



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.

Purity

Immunogen affinity purified.

Application

	Concen- tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu	-	-
IHC-P	1-2µg/ml	Hu, Rat	Ms	Enzyme Digestion
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

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FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

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.