

Polyclonal Anti-CD133

Catalogue No. PA1217

Lot No. 0121212021727

Ig type rabbit IgG

Size 100µg/vial

Form: lyophilized

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(171-191aa, NHQVRTRIKRSRKLADSNFKD).

Purification

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	0.1-0.5µg/ml	Hu	-	-
IHC-P	0.5-1µg/ml	Hu,Rat	Ms	Enzyme Digestion

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 a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IH.

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.