

Mouse anti-Human CD133 Antibody | anti-CD133 antibody

Anti-Hu CD133 PE-Cy7

CATALOG # AAA129377	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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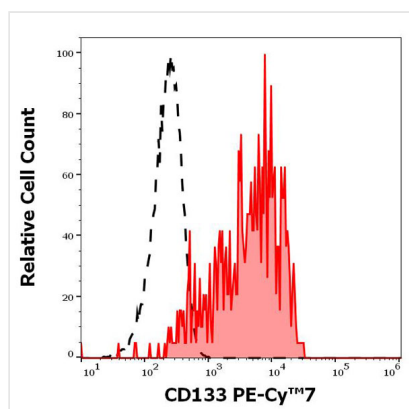
PRODUCT SYNONYMS

CD133; Anti-Hu CD133 PE-Cy7; prominin 1; Prominin 1; PROM1; AC133; PROML1; STGD4; anti-CD133 antibody

PRODUCT SPECIFICATIONS

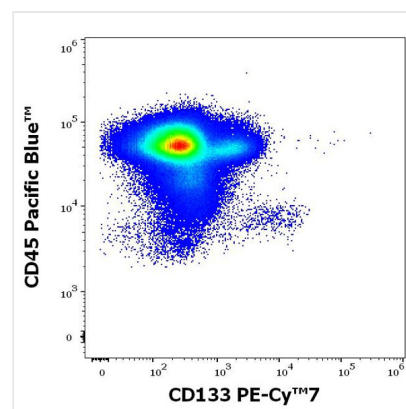
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG2b
Clone Number	293C3
Specificity	The mouse monoclonal antibody 293C3 recognizes the extracellular epitope 2 on human CD133 (CD133/2), a 120 kDa glycoprotein of prominin family, expressed e.g. on progenitor cells. This antibody is important for identification of human renal progenitors.
Purity/Purification	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD133 antibody	FCM/FACS (Flow Cytometry)
Immunogen	human CD133 transfectants
Conjugation	PE-Cy7
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



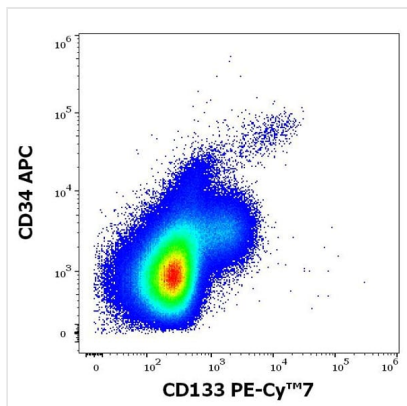
FCM/FACS (Flow Cytometry)

Separation of human CD34 positive CD45dim hematopoietic stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD133 (293C3) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



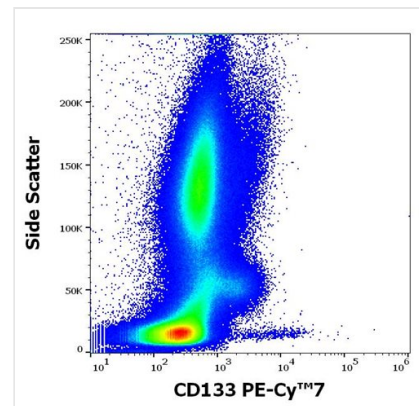
FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells stained using anti-human CD45 (MEM-28) Pacific Blue antibody (4ul reagent/100ul of peripheral whole blood) and anti-human CD133 (293C3) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells stained using anti-human CD34 (581) APC antibody (10ul reagent/100ul of peripheral whole blood) and anti-human CD133 (293C3) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD133 (293C3) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD133 antibody	CD133 (prominin 1) is a 5-transmembrane glycoprotein with extracellular N- and intracellular C-terminus. CD133 function remains to be elucidated, but it can be used as a cancer stem cell marker. Its expression pattern in progenitor cells is similar to CD34, i.e. on hematopoietic stem cells in bone marrow, cord blood, neural stem cells, retinoblastoma, or endothelial precursor cells (not mature endothelial cells). It is being used for identification and isolation of hematopoietic stem cells, including isolation for stem cell transplantation. Expression of CD133 correlates with differentiation of human colon cancer cells.
References	*Hermansen SK, Christensen KG, Jensen SS, Kristensen BW: Inconsistent immunohistochemical expression patterns of four different CD133 antibody clones in glioblastoma. J Histochem Cytochem. 2011 Apr;59(4):391-407., URL: https://www.ncbi.nlm.nih.gov/pubmed/21411810 ,*Angelotti ML, Lazzeri E, Lasagni L, Romagnani P: Only anti-CD133 antibodies recognizing the CD133/1 or the CD133/2 epitopes can identify human renal progenitors. Kidney Int. 2010 Sep;78(6):620-1, URL: https://www.ncbi.nlm.nih.gov/pubmed/?term=only+anti-cd133+antibodies+recognizing ,*Feng HL, Liu YQ, Yang LJ, Bian XC, Yang ZL, Gu B, Zhang H, Wang CJ, Su XL, Zhao XM: Expression of CD133 correlates with differentiation of human colon cancer cells. Cancer Biol Ther. 2010 Feb;9(3):216-23., URL: https://www.ncbi.nlm.nih.gov/pubmed/?term=feng+hl+yang+lz+yang+zl+zhang+h ,*Zhang M, Liu Y, Feng H, Bian X, Zhao W, Yang Z, Gu B, Li Z, Liu Y: CD133 affects the invasive ability of HCT116 cells by regulating TIMP-2. Am J Pathol. 2013 Feb;182(2):565-76. , URL: https://www.ncbi.nlm.nih.gov/pubmed/23195431 ,*Barrantes-Freer A, Renovanz M, Eich M, Braukmann A, Sprang B, Spirin P, Pardo LA, Giese A, Kim EL: CD133 expression is not synonymous to immunoreactivity for AC133 and fluctuates throughout the cell cycle in glioma stem-like cells. PLoS One. 2015 Jun 18;10(6):e0130519., URL: https://pubmed.ncbi.nlm.nih.gov/26086074/ ,*Lardon J, Corbeil D, Huttner WB, Ling Z, Bouwens L: Stem cell marker prominin-1/AC133 is expressed in duct cells of the adult human pancreas. Pancreas. 2008 Jan;36(1):e1-6. doi: 10.1097/mpa.0b013e318149f2dc., URL: https://www.ncbi.nlm.nih.gov/pubmed/?term=lardon+j+corbeil+d ,*Richardson GD, Robson CN, Lang SH, Neal DE, Maitland NJ, Collins AT: CD133, a novel marker for human prostatic epithelial stem cells. J Cell Sci. 2004 Jul 15;117(Pt 16):3539-45., URL: https://www.ncbi.nlm.nih.gov/pubmed/?term=richardson+gd+robson+cn,

NCBI AND UNIPROT INFORMATION

NCBI GI #	13124442
NCBI GeneID	8842
UniProt Accession #	O43490 ; Q6SV49 ; Q6SV50 ; Q6SV51 ; Q6SV52 ; Q6SV53 ; Q96EN6
Molecular Weight	97kDa
NCBI Official Full Name	Prominin-1
NCBI Official Synonym Full Names	prominin 1
NCBI Official Symbol	PROM1

NCBI Official Synonym Symbols	RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061
NCBI Protein Information	prominin-1; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen
UniProt Protein Name	Prominin-1
UniProt Gene Name	PROM1
UniProt Synonym Gene Names	PROML1
UniProt Entry Name	PROM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd133/129377>