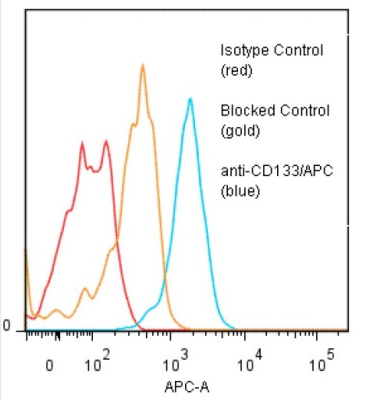
CD133 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD133, Antibody
Full Product Name	anti-human CD133-APC
Product Gene Name	anti-CD133 antibody
Product Synonym Names	Monoclonal anti-human CD133(AC133)/APC; anti-human CD133; anti-CD133 Allophycocyanin; AC133; Prominin; PROML1; PROM1
Isotype	Mouse IgG1,k
Clone Number	ANC9C5
Host	Mouse
Species Reactivity	Human
Form/Format	50mM Sodium Phosphate pH7.5, 500mM Potassium Chloride, 150mM NaCl, 15% Glycerol, 0.2%; BSA, 0.04% NaN3 (as a preservative).
Specificity	Antibody ANC9C5 recognizes epitope 1 of human CD133(AC133) present on full length CD133 transfectants, Y-79 retinoblastoma, and other cell types.
Preparation and Storage	Store at 2-5 degree C. Do not freeze! Protect from light. Product should retain activity for at least 12 months after shipping date when stored as recommended.
Conjugation	APC
Immunogen	WERI-Rb-1 human retinoblastoma cells
Production	Protein A purified antibody from tissue culture supernatant was conjugated to cross-linked Allophycocyanin through a sulfo-ester linkage. Unconjugated antibody was removed using size exclusion chromatography. Antibody conjugate is at approximately 0. 5 mg/ml with an A650/A280 ratio of 2.0.
Performance	Antibody ANC9C5 was tested for its ability to bind to full length CD133 transfectants Y-79 retinoblastoma cells, and other CD133+ cells i flow cytometry. Five x 10 5 human Y-79 tumor cells per tube were pre incubated with 20 ul of 250 ug/ml human Ig (to block non specific binding) after which they were incubate 45 minutes on ice with 80 ul of anti-CD133/APC at a dilution factor of 1:50 (10 ug/ml), after which they were washed three times, fixed and analyzed b Cells stained positive with a mean shift of 1.11 lo 10 fluorescent units when compared to a Mouse IgG1/APC negative control . Binding was blocked when cells were pre incubated 10 minutes with 20 ul of 0.5 mg/ml unconjugated anti-CD133 antibody .
Product Categories/Family for anti-CD133 antibody	Anti-Human Antibodies; Progenitor/Stem Cell
Applications Tested/Suitable for anti-CD133 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD133 antibody	Antibody ANC9C5 has been used to image cancer stem cells in a colon carcinoma xenograft (4).
Related Product Information for anti-CD133 antibody	Human CD133 is a 117kd 5 transmembrane protein expressed by a subset of hematopoetic stem cells found in blood and some other tissues. Increased expression of CD133 may be a predictor of decreased prognosis in patients with metastatic cancer(3). Antibody ANC9C5 recognizes epitope 1 of human CD133 (AC133) present on full length CD133 transfectants, Y-79 retinoblastoma, and other cell types.
Product References and Citations for anti-CD133 antibody	1) Miraglia S, Buck DW, et al. (1997) Blood 90(12): 5013-5021.; 2) Shmelkov SV, Rafii S, et al. (2005) Int J Biochem Cell Biol 37(4): 715-9.; 3) Mehra N, Voest EE, et al. (2006) Clin Canc Res 12(16): 4859-66.; 4) Jin ZH, Fuibayashi Y, et al. (2012) Mol Imaging 11: 445-50. PMID: 23084245.

Other Notes	Small volumes of anti-CD133 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD133 purchase	MBS666976 is an antibody targeting CD133. Also known as anti-human CD133-APC. Reactive in Human. Host: Mouse.



Testing Data of anti-CD133 antibody
Binding of anti-CD133/APC to human Y-79 retinoblastoma

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD133. It may not necessarily be applicable to this product.

Protein Family	Prominin
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/human-antibody/cd133/666976