## Product Data Sheet

## PE/Cyanine7 anti-human CD133

Catalog \# / 2570065 / 25 tests Size: 2570070 / 100 tests<br>Clone: S16016B<br>Isotype: Mouse IgG2a, K<br>Immunogen: Human CD133 transfectants<br>Reactivity: Human<br>Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.<br>Formulation: Phosphate-buffered solution, pH 7.2, containing $0.09 \%$ sodium azide and $0.2 \%(w / v)$ BSA (origin USA)<br>Workshop IV P38<br>Number:<br>Concentration: Lot-specific

Human peripheral blood mononucleus cells were stained with CD34 PerCP/Cyanine5.5 and CD133 (clone S16016B) PE/Cyanine7 (left) or mouse IgG2a, к PE/Cyanine7 isotype control (right). Data shown was gated on the CD45 ${ }^{+}$and CD14lymphocyte population.

## Applications:

Applications: Flow Cytometry<br>Recommended<br>Usage:<br>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is $5 \mu \mathrm{~L}$ per million cells in $100 \mu \mathrm{~L}$ staining volume or $5 \mu \mathrm{~L}$ per $100 \mu \mathrm{~L}$ of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br>Application In-house testing suggests that clone S16016B blocks clone AC133 but not Notes: clone 7 that are also raised against human CD133.<br>Application 1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New References:<br>\section*{York.}<br>2. McCarty OJT, et al. 2000. Blood 96:1789.<br>3. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)<br>4. Zhi L et al. 2013. PLoS One. 8:e79869. (IHC)

## Description: CD133, also known as Prominin-1 and AC133 antigen, is a 120 kD pentaspan glycoprotein with 5 transmembrane domains. CD133 was initially described as a surface antigen specific for human hematopoietic stem cells and as a marker for murine neuroepithelial cells and some embryonic epithelia. Later on, CD133 was found on other stem cells, including endothelial progenitor cells, glioblastomas, neuronal, and glial stem cells. In addition to stem cells for normal tissue, CD133 was found on cancer cells, such as some leukemia cells and brain tumor cells. Although the biological function of CD133 is not completely understood, CD133 has been extensively used as a stem cell marker for normal and cancerous tissues.

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[^0]:    Antigen 1. Yin AH, et al. 1997. Blood. 90:5002.
    References: 2. Miraglia S, et al. 1997. Blood. 90:5013.
    3. Bühring HJ, et al. 1999. Ann. NY Acad. Sci. 872:25.

