

APC anti-human CD133

Catalog # / Size: 2589525 / 25 tests
2589530 / 100 tests

Clone: W6B3C1

Isotype: Mouse IgG1, κ

Immunogen: WERI-RB-1 human retinoblastoma cell line

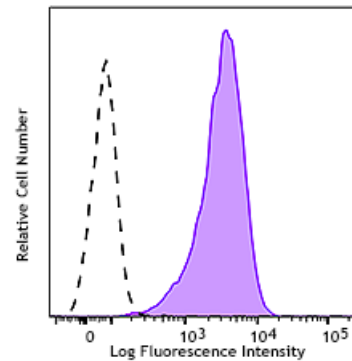
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: IV 103

Concentration: Lot-specific



NCCIT cells were stained with anti-human CD133 (clone W6B3C1) (filled histogram) or mouse IgG1, κ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: W6B3C1 antibody does not compete against AC133, 293C2, clone 7, S16015F, S16016B, or S16016E antibody binding to target.

- Application References:**
- Hermansen SK, *et al.* 2011. *J. Histochem Cytochem.* 59(4): 391.
 - Rappa G, *et al.* 2008. *Stem Cells.* 26(12): 3008.
 - Tardito S, *et al.* 2015. *Nat Cell Biol.* 17(12): 1556.

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.

- Antigen References:**
- Yin AH, *et al.* 1997. *Blood.* 90:5002.
 - Miraglia S, *et al.* 1997. *Blood.* 90:5013.
 - Bühring HJ, *et al.* 1999. *Ann. NY Acad. Sci.* 872:25.