SONY

Product Data Sheet

Purified anti-human CD133

Catalog # / Size: 2464010 / 100 µg

Clone: clone 7

Isotype: Mouse IgG1, κ

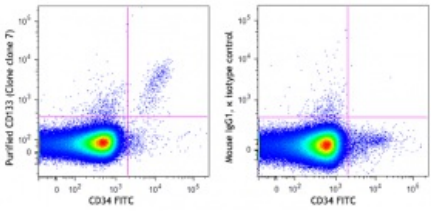
Immunogen: Recombinant partial human CD133 protein.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml



Human peripheral blood leukocytes were stained with purified anti-human CD133 (Clone clone 7) (top) or purified mouse IgG1 ÃŽÂº isotype control (bottom), followed by anti-mouse IgG PE. Cells were then stained with FITC anti-human CD34. Data shown were ga

Applications:

Applications: Flow Cytometry, Immunofluorescence, Immunohistochemistry, Other

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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: This clone can block the staining of AC133 clone in flow cytometry.

Additional reported applications (for the relevant formats of this clone) include: Immunocytochemistry (ICC), immunohistochemical staining on frozen tissue (IHC-F), and Western blotting (WB)

Application References:

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

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:

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