

Alexa Fluor® 647 anti-human CD133 Antibody

Catalog# / Size	393913 / 25 tests 393914 / 100 tests
Clone	S16015F
Regulatory Status	RUO
Other Names	Prominin-1, PROM1, AC133
Isotype	Mouse IgG2a, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD133 transfectants
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Red Laser (633 nm)
Application Notes	In-house testing suggests that clone S16015F does not block clones 293C3, AC133, and clone 7 that are also raised against human CD133.
RRID	AB_3662291 (BioLegend Cat. No. 393913) AB_3662291 (BioLegend Cat. No. 393914)

Antigen Details

Structure	120 kD pentaspan transmembrane glycoprotein with 5 transmembrane domains
Distribution	Hematopoietic stem cells and progenitor cells, fetal liver cells, tissue specific stem cells or progenitor cells such as renal and prostate, a variety of tumor cells
Function	May play a role in cell differentiation, proliferation, and apoptosis
Interaction	NAT8; NAT8B; CDHR1
Cell Type	Hematopoietic stem and progenitors
Biology Area	Cancer Biomarkers, Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules

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.

Gene ID [8842](#)

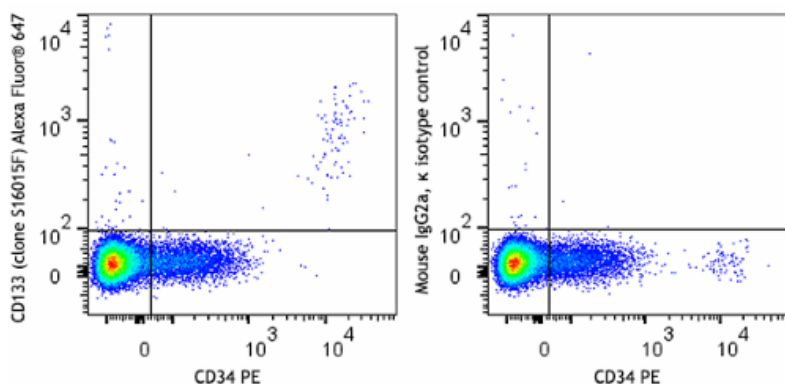
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human CD133, Purified anti-human CD133, APC anti-human CD133, PE/Dazzle™ 594 anti-human CD133, PE/Cyanine7 anti-human CD133, Brilliant Violet 421™ anti-human CD133, Alexa Fluor® 647 anti-human CD133

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD34 (clone 561) PE and anti-human CD133 (clone S16015F) Alexa Fluor® 647 (left) or, mouse IgG2a, κ Alexa Fluor® 647 isotype control (right). Data shown were gated on the CD45⁺ CD14⁻ lymphocyte population.

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587