

# CD133 (Prominin-1) Monoclonal Antibody (13A4), APC, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 50 µg   |
| Species Reactivity          | Dog, Mouse  |
| Published Species           | Mouse, Human  |
| Host/Isotype                | Rat / IgG1, kappa   |
| Recommended Isotype Control | Rat IgG1 kappa Isotype Control (eBRG1), APC, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | 13A4  |
| Conjugate                   | APC   |
| Excitation/Emission Max     | 651/660 nm  |
| Form                        | Liquid  |
| Concentration               | 0.2 mg/mL   |
| Purification                | Affinity chromatography                                   |
| Storage buffer              | PBS, pH 7.2   |
| Contains                    | 0.09% sodium azide  |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!                       |
| RRID                        | AB_823120   |

| Applications                 | Tested Dilution | Publications    |
|------------------------------|-----------------|-----------------|
| Immunocytochemistry (ICC/IF) | -               | 1 Publication   |
| Flow Cytometry (Flow)        | 0.125 µg/test   | 39 Publications |

## Product Specific Information

**Description:** The 13A4 monoclonal antibody recognizes mouse Prominin-1 (sometimes also referred to as CD133 and, in the case of the human orthologue, as AC133), a 115-120 kDa pentaspan transmembrane (5-TM) domain glycoprotein. Prominin-1 is expressed on primitive cells such as hematopoietic stem and progenitor cells, neural and endothelial stem cells, retina and retinoblastoma, as well as developing epithelium. To date, the function and ligand of Prominin-1 are unknown. The 13A4 antibody does not cross react with rat, human, chicken, or Drosophila antigen but has been reported to work in canine/dog.

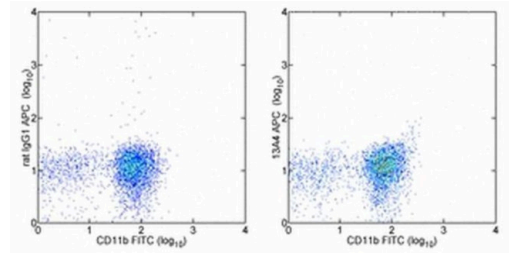
**Applications Reported:** The 13A4 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 13A4 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD133 (Prominin-1) Monoclonal Antibody (13A4), APC, eBioscience™



**CD133 (Prominin-1) Antibody (17-1331-81) in Flow**  
Staining of BALB/c bone marrow cells with Anti-Mouse CD11b FITC (Product # 11-0112-41) and 0.06 µg of Rat IgG1 kappa Isotype Control APC (Product # 17-4301-82) (left) or 0.06 µg of Anti-Mouse CD133 (Prominin-1) APC (right). Total viable cells were used for analysis.

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40 References

Immunocytochemistry (1)

|   |              |
|---|--------------|
| Cancer research   | Year<br>2007 |
| <b>CD133 is not present on neurogenic astrocytes in the adult subventricular zone, but on embryonic neural stem cells, ependymal cells, and glioblastoma cells.</b> |              |
| Authors: Pfenninger CV,Roschupkina T,Hertwig F,Kottwitz D,Englund E,Bengzon J,Jacobsen SE,Nuber UA  |              |

Flow Cytometry (39)

|  |              |
|--|--------------|
| STAR protocols   | Year<br>2022 |
| <b>Analyzing mouse neural stem cell and progenitor cell proliferation using EdU incorporation and multicolor flow cytometry.</b>   |              |
| "17-1331-81 was used in Flow Cytometry to describe a ex vivo protocol to identify and quantify the proportions of proliferating neural stem cells and progenitors of the mouse subventricular zone." |              |
| Authors: Velloso FJ,Kumari E,Buono KD,Frondevalli MJ,Levison SW  |              |
| Species<br>Mouse   |              |

|   |              |
|---|--------------|
| Nature communications   | Year<br>2022 |
| <b>C/EBPB-dependent adaptation to palmitic acid promotes tumor formation in hormone receptor negative breast cancer.</b>  |              |
| "17-1331-81 was used in Flow Cytometry to identify cancer cell-autonomous determinants of obesity-induced postmenopausal breast cancer risk."                               |              |
| Authors: Liu XZ,Rulina A,Choi MH,Pedersen L,Lepland J,Takle ST,Madeleine N,Peters SD,Wogsgland CE,Grøndal SM,Lorens JB,Goodarzi H,Lønning PE,Knappskog S,Molven A,Halberg N |              |
| Species<br>Human  |              |

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