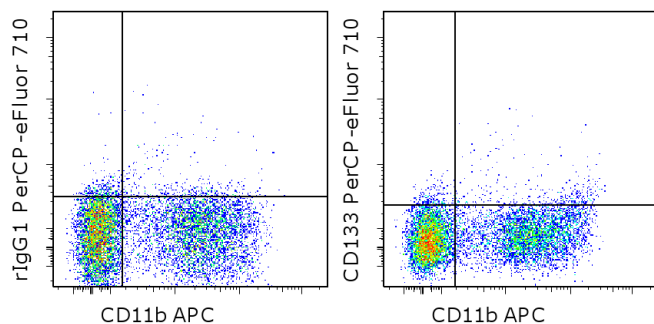


## Anti-Mouse CD133 (Prominin I) PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-1331

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of C57Bl/6 bone marrow cells with Anti-Mouse CD11b APC (cat. 17-0112) and Rat IgG1 K Isotype Control PerCP-eFluor<sup>®</sup> 710 (cat. 46-4301) (left) or 0.06 ug of Anti-Mouse CD133 (Prominin I) PerCP-eFluor<sup>®</sup> 710 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD133 (Prominin I)  
PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-1331

**Clone:** 13A4

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### 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 & 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

This 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.

**PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.**

**Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.**

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## Anti-Mouse CD133 (Prominin I) PerCP-eFluor<sup>®</sup> 710

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present on neurogenic astrocytes in the adult subventricular zone, but on embryonic neural stem cells, ependymal cells, and glioblastoma cells. *Cancer Res.* 2007 Jun 15;67(12):5727-36. (**13A4**, Immunofluorescence, PubMed)

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### Related Products

17-0112 Anti-Mouse CD11b APC (M1/70)

46-4301 Rat IgG1 K Isotype Control PerCP-eFluor<sup>®</sup> 710

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