



CD133 (Prominin-1) Monoclonal Antibody (13A4), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Dog, Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	13A4
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10670743

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	16 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: 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

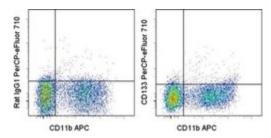
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL 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.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD133 (Prominin-1) Monoclonal Antibody (13A4), PerCP-eFluor 710, eBioscience™



CD133 (Prominin-1) Antibody (46-1331-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and Rat IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4301-80) (left) or $0.06~\mu g$ of Anti-Mouse CD133 (Prominin I) PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 17 References

Immunocytochemistry (1)

Cancer research

CD133 is not present on neurogenic astrocytes in the adult subventricular zone, but on embryonic neural stem cells, ependymal cells, and glioblastoma cells.

Authors: Pfenninger CV,Roschupkina T,Hertwig F,Kottwitz D,Englund E,Bengzon J,Jacobsen SE,Nuber UA

Species Not Applicable

DilutionNot Cited

Year 2007

Flow Cytometry (16)

STAR protocols

Cell population analysis of the adult murine subependymal neurogenic lineage by flow cytometry.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 46-1331-82) in Flow Cytometry"

Authors: Belenguer G,Duart-Abadia P,Domingo-Muelas A,Morante-Redolat JM,Fariñas I

SpeciesNot Applicable

Dilution Not Cited

Year 2021

Development (Cambridge, England)

Membrane expression of the estrogen receptor ER is required for intercellular communications in the mammary epithelium.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 46-1331-82) in Flow Cytometry"

Authors: Gagniac L,Rusidzé M,Boudou F,Cagnet S,Adlanmerini M,Jeannot P,Gaide N,Giton F,Besson A,Weyl A, Gourdy P,Raymond-Letron I,Arnal JF,Brisken C,Lenfant F

SpeciesNot Applicable

Dilution Not Cited

Year 2020

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More applications with references on thermofisher.com

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