

# 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
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_823120

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	31 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.

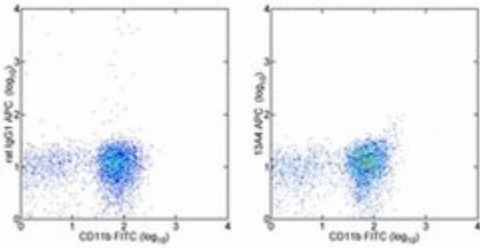
**Applications Reported:** The 13A4 antibody has been reported for use in flow cytometric analysis.

**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.

[View more figures on thermofisher.com](#)

## 32 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

**Dilution**

Not Cited

**Year**

2007

### Flow Cytometry (31)

STAR protocols

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

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 17-1331-81) in Flow Cytometry"

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

**Species**

Not Applicable

**Dilution**

Not Cited

**Year**

2021

Development (Cambridge, England)

**A SMAD1/5-YAP signalling module drives radial glia self-amplification and growth of the developing cerebral cortex.**

"17-1331 was used in Flow cytometry/Cell sorting to describe a novel and evolutionarily conserved role of the canonical BMP transcription factors SMAD1/5 in controlling neurogenesis and growth during corticogenesis."

Authors: Najas S, Pijuan I, Esteve-Codina A, Usieto S, Martinez JD, Zwijnen A, Arbonés ML, Martí E, Le Dréau G

**Species**

Mouse

**Dilution**

Not Cited

**Year**

2020

[View more Flow references on thermofisher.com](#)

## More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.