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

Product Details	
Size	50 µg
Species Reactivity	Dog, Mouse
Published Species	Mouse, Human
Host/Isotope	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
Flow Cytometry (Flow)	0.125 µg/test	27 Publications
Immunofluorescence (IF)	-	1 Publication

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.

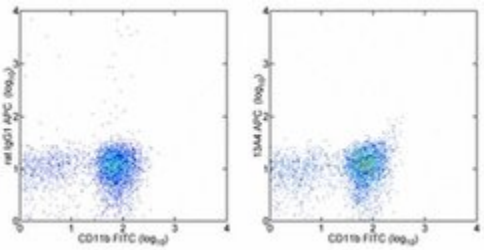
Applications Reported: The 13A4 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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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28 References

Flow Cytometry (27)

The Journal of investigative dermatology

Spatial and Single-Cell Transcriptional Profiling Identifies Functionally Distinct Human Dermal Fibroblast Subpopulations.

"17-1331 was used in Flow cytometry/Cell sorting to suggest that ex vivo expansion or in vivo ablation of specific fibroblast subpopulations may have therapeutic applications in wound healing and diseases characterized by excessive fibrosis."

Authors: Philippeos C,Telerman SB,Oulès B,Pisco AO,Shaw TJ,Elgueta R,Lombardi G,Driskell RR,Soldin M,Lynch MD, Watt FM

Species
Mouse

Dilution
Not Cited

Year
2018

Cancer cell

A p53 Super-tumor Suppressor Reveals a Tumor Suppressive p53-Ptpn14-Yap Axis in Pancreatic Cancer.

"17-1331 was used in Flow cytometry/Cell sorting to analyse pancreatic cancer development in mice expressing p53 transcriptional activation domain mutants."

Authors: Mello SS,Valente LJ,Raj N,Seoane JA,Flowers BM,McClendon J,Bieging-Rolett KT,Lee J,Ivanochko D,Kozak MM,Chang DT,Longacre TA,Koong AC,Arrowsmith CH,Kim SK,Vogel H,Wood LD,Hruban RH,Curtis C,Attardi LD

Species
Mouse

Dilution
1:100

Year
2017

View more Flow references on thermofisher.com

Immunofluorescence (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

More applications with references on thermofisher.com