

CD133 (Prominin-1) Monoclonal Antibody (13A4), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13A4
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2716999

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	4 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 may be used at less than or equal to 0.5 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.

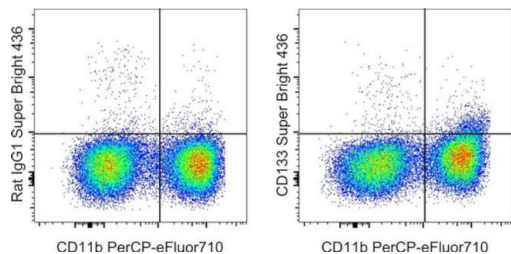
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD133 (Prominin-1) Monoclonal Antibody (13A4), Super Bright™ 436, eBioscience™



CD133 (Prominin-1) Antibody (62-1331-82) in Flow

BALB/c mouse bone marrow cells were stained with CD11b Monoclonal Antibody, PerCP-eFluor 710 (Product # 46-0112-82) and 0.25 µg of Rat IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4301-82) (left) or 0.25 µg of CD133 (Prominin-1) Monoclonal Antibody, Super Bright 436 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.cn](http://thermofisher.cn)

8 References

Western Blot (1)

Cancer cell international

Musashi-1 promotes cancer stem cell properties of glioblastoma cells via upregulation of YTHDF1.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 62-1331-82) in Western Blot"

Authors: Yarmishyn AA, Yang YP, Lu KH, Chen YC, Chien Y, Chou SJ, Tsai PH, Ma HI, Chien CS, Chen MT, Wang ML

Year
2020

Immunohistochemistry (1)

iScience

Prominin 1 and Notch regulate ciliary length and dynamics in multiciliated cells of the airway epithelium.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 62-1331-82) in Immunohistochemistry"

Authors: Serra CFH, Liu H, Qian J, Mori M, Lu J, Cardoso WV

Year
2022

Immunocytochemistry (2)

iScience

Prominin 1 and Notch regulate ciliary length and dynamics in multiciliated cells of the airway epithelium.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 62-1331-82) in Immunohistochemistry"

Authors: Serra CFH, Liu H, Qian J, Mori M, Lu J, Cardoso WV

Year
2022

Journal of the American Society of Nephrology : JASN

Lovastatin-Induced Phosphatidylinositol-4-Phosphate 5-Kinase Diffusion from Microvilli Stimulates ROMK Channels.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 62-1331-82) in Immunocytochemistry"

Authors: Liu BC, Yang LL, Lu XY, Song X, Li XC, Chen G, Li Y, Yao X, Humphrey DR, Eaton DC, Shen BZ, Ma HP

Year
2015

More applications with references on thermofisher.cn

Flow (4)

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