

# CD133 (Prominin-1) Monoclonal Antibody (13A4), Alexa Fluor 488, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Dog, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13A4
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 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_529615

Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	17 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.

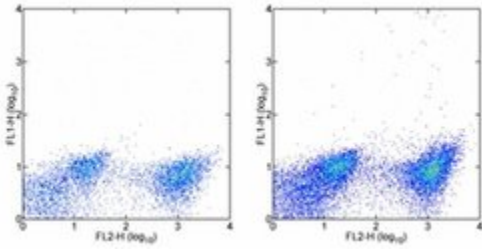
Applications Reported: This 13A4 antibody has been reported for use in flow cytometric analysis.

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 0.5 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 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: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD133 (Prominin-1) Monoclonal Antibody (13A4), Alexa Fluor 488, eBioscience™



### CD133 (Prominin-1) Antibody (53-1331-80) in Flow

Staining of BALB/c bone marrow cells with Anti-Mouse CD11b PE (Product # 12-0112-82) and 0.25 µg of Rat IgG1 kappa Isotype Control Alexa Fluor® 488 (Product # 53-4301-80) (left) or 0.25 µg of Anti-Mouse CD133 (Prominin-1) Alexa Fluor® 488 (right). Cells in the large scatter population were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 41 References

### Western Blot (3)

The Journal of clinical investigation

#### Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 53-1331-80) in Immunohistochemistry"

Authors: Edamakanti CR,Do J,Didonna A,Martina M,Opal P

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

BMC cancer

#### Impact of diabetes type II and chronic inflammation on pancreatic cancer.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 53-1331-80) in Immunohistochemistry"

Authors: Zechner D,Radecke T,Amme J,Bürtin F,Albert AC,Partecke LI,Vollmar B

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2015

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

### Immunohistochemistry (15)

Nature communications

#### Heterogeneity and dynamics of active Kras-induced dysplastic lineages from mouse corpus stomach.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 53-1331-80) in Immunohistochemistry"

Authors: Min J,Vega PN,Engevik AC,Williams JA,Yang Q,Patterson LM,Simmons AJ,Bliton RJ,Betts JW,Lau KS, Magness ST,Goldenring JR,Choi E

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

The Journal of clinical investigation

#### Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.

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**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

### More applications with references on thermofisher.com

ICC/IF (6)

Flow (17)

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