

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

Product Details	
Size	100 µg
Species Reactivity	Dog, Mouse
Published Species	Dog, Human, Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13A4
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465198

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunohistochemistry (IHC)	-	14 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	30 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.

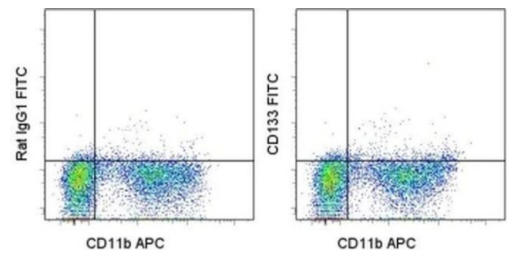
**Applications Reported:** The 13A4 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The 13A4 antibody has been tested 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: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



**CD133 (Prominin-1) Antibody (11-1331-82) in Flow**  
Staining of C57Bl/6 bone marrow cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and 0.25 µg of Rat IgG1 kappa Isotype Control FITC (Product # 11-4301-82) (left) or 0.25 µg of Anti-Mouse CD133 (Prominin-1) FITC (right). Total viable cells were used for analysis.

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Western Blot (4)

<p>Cancer cell international</p> <p><b>Musashi-1 promotes cancer stem cell properties of glioblastoma cells via upregulation of YTHDF1.</b></p> <p>"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 11-1331-82) in Western Blot"</p> <p>Authors: Yarmishyn AA,Yang YP,Lu KH,Chen YC,Chien Y,Chou SJ,Tsai PH,Ma HI,Chien CS,Chen MT,Wang ML</p>	<p><b>Year</b></p> <p>2020</p>
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<p>The Journal of clinical investigation</p> <p><b>Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.</b></p> <p>"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 11-1331-82) in Immunohistochemistry"</p> <p>Authors: Edamakanti CR,Do J,Didonna A,Martina M,Opal P</p>	<p><b>Year</b></p> <p>2018</p>
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Immunohistochemistry (14)

<p>The Journal of clinical investigation</p> <p><b>Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.</b></p> <p>"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 11-1331-82) in Immunohistochemistry"</p> <p>Authors: Edamakanti CR,Do J,Didonna A,Martina M,Opal P</p>	<p><b>Year</b></p> <p>2018</p>
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<p>PloS one</p> <p><b>Lgr5 Marks Post-Mitotic, Lineage Restricted Cerebellar Granule Neurons during Postnatal Development.</b></p> <p>"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 11-1331-82) in Immunofluorescence"</p> <p>Authors: Miller TE,Wang J,Sukhdeo K,Horbinski C,Tesar PJ,Wechsler-Reya RJ,Rich JN</p>	<p><b>Year</b></p> <p>2017</p>
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More applications with references on thermofisher.com

- IHC (F) (1)
- ICC/IF (7)
- Flow (30)

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