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

Product Details	
Size	100 µg
Species Reactivity	Dog, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13A4
Conjugate	Biotin
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_466591

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.125 µg/test	27 Publications

Product Specific Information

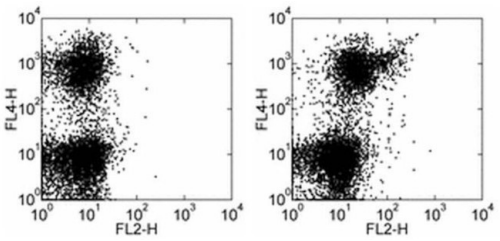
Description: The 13A4 monoclonal antibody recognizes mouse Prominin-1 (sometimes also referred to as CD133 and, in the case of the human orthologue, as AC133), a 115-120 kDa pentaspan transmembrane (5-TM) domain glycoprotein. Prominin-1 is expressed on primitive cells such as hematopoietic stem and progenitor 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. It does not cross-react with rat and human Prominin-1.

Applications Tested: The 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.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD133 (Prominin-1) Antibody (13-1331-82) in Flow
Staining of BALB/c bone marrow cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and 0.06 µg of Rat IgG1 kappa Isotype Control Biotin (Product # 13-4301-82) (left) or 0.06 µg of Anti-Mouse CD133 (Prominin-1) Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

View more figures on thermofisher.com

53 References

Western Blot (4)

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 # 13-1331-82) 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

The Journal of clinical investigation

Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 13-1331-82) in Immunohistochemistry"

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

Year
2018

View more WB references on thermofisher.com

Immunohistochemistry (15)

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 # 13-1331-82) in Immunocytochemistry"

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

Year
2022

The Journal of clinical investigation

Mutant ataxin1 disrupts cerebellar development in spinocerebellar ataxia type 1.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 13-1331-82) in Immunohistochemistry"

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

Year
2018

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

ICC/IF (7) **Flow (27)**

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.