

CD133 (Prominin-1) Monoclonal Antibody (EMK08), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	EMK08
Conjugate	APC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2043803

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	2 Publications

Product Specific Information

Description: The EMK08 monoclonal antibody reacts with human CD133 (Prominin-1), a 120 kDa member of the pentaspan family of proteins, which also includes Prominin-2. Their expression is found within plasma membrane protrusions such as epithelial microvilli. CD133 can exist in a number of alternatively spliced isoforms, and the protein has several N-linked glycosylation sites; the occurrence of both may be tissue-dependent. Human CD133 was first identified as an epitope expressed on CD34+ hematopoietic progenitors. Although the ligand and function of CD133 remain unknown, it has since proven to be very useful as a marker for both stem cells and cancer stem cells. In addition to its expression on hematopoietic precursors, CD133 has been used to identify tumorigenic colon cancer stem cells, brain cancer stem cells, prostate cancer stem cells, in addition to others.

The binding of the EMK08 antibody does not block the binding of another anti-human CD133 antibody, TMP4 (cat. 12-1338) indicating that they recognize distinct epitopes.

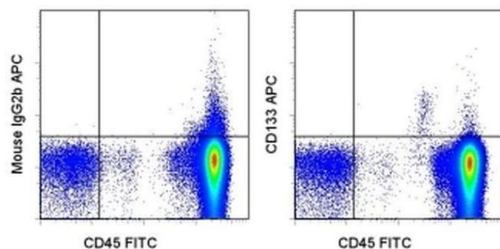
Applications Reported: This EMK08 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This EMK08 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (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 10⁵ to 10⁸ cells/test.

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 (EMK08), APC, eBioscience™



CD133 (Prominin-1) Antibody (17-1339-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD45 FITC (Product # 11-0459-42) and Mouse IgG2b K Isotype Control APC (Product # 17-4732-81) (left) or Anti-Human CD133 APC (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

International journal of oncology

Anisomycin inhibits angiogenesis in ovarian cancer by attenuating the molecular sponge effect of the lncRNAMeg3/miR421/PDGFRα axis.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 17-1339-42) in Flow Cytometry"

Authors: Ye W, Ni Z, Yicheng S, Pan H, Huang Y, Xiong Y, Liu T

Species
Not Applicable

Dilution
Not Cited

Year
2019

Molecular medicine reports

Salvianolic acid B reverses multidrug resistance in nude mice bearing human colon cancer stem cells.

"Published figure using CD133 (Prominin-1) monoclonal antibody (Product # 17-1339-42) in Flow Cytometry"

Authors: Guo P, Wang J, Gao W, Liu X, Wu S, Wan B, Xu L, Li Y

Species
Not Applicable

Dilution
Not Cited

Year
2018

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