

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	EMK08
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
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_2016660

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	3 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 (Product # 12-1338) indicating that they recognize distinct epitopes.

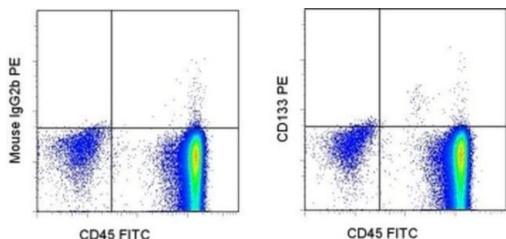
Applications Reported: This EMK08 antibody has been reported for use in flow cytometric analysis.

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 (0.25 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: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD133 (Prominin-1) Monoclonal Antibody (EMK08), PE, eBioscience™



CD133 (Prominin-1) Antibody (12-1339-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD45 FITC (Product # 11-9459-42) and Mouse IgG2b K Isotype Control PE (Product # 12-4732-81) (left) or Anti-Human CD133 PE (right). Total viable cells were used for analysis.

3 References

Flow Cytometry (3)

American journal of physiology. Cell physiology

Downregulation of AAA-domain-containing protein 2 restrains cancer stem cell properties in esophageal squamous cell carcinoma via blockade of the Hedgehog signaling pathway.

"12-1339-42 was used in Flow Cytometry to conclude that downregulation of ATAD2 can seemingly restrain the malignant phenotypes of ESCC cells through inhibition of the Hedgehog signaling pathway."

Authors: Li N, Yu Y, Wang B

Year
2020

Species
Human

International journal of oncology

Curcumin attenuates resistance to irinotecan via induction of apoptosis of cancer stem cells in chemoresistant colon cancer cells.

"12-1339 was used in Flow cytometry/Cell sorting to demonstrate that curcumin attenuated resistance to chemotherapeutic drugs through induction of apoptosis of CSCs among colon cancer cells."

Authors: Su P, Yang Y, Wang G, Chen X, Ju Y

Year
2018

Species
Human

[View more Flow references on thermofisher.cn](#)

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