

CD56 (NCAM) Monoclonal Antibody (CMSSB), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CMSSB
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10854573

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	15 Publications

Product Specific Information

Description: This CMSSB monoclonal antibody reacts with human CD56, also known as Neural Cell Adhesion Molecule (NCAM). CD56 is a highly glycosylated transmembrane molecule expressed by neurons and plays a role in the homotypic adhesion of neural cells. In the hematopoietic system, CD56 is expressed on NK cells and a subset of T cells referred to as NKT cells. Staining with CMSSB does not block binding of MEM188 or CB56.

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

Applications Tested: This CMSSB antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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.

APC-eFluor® 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

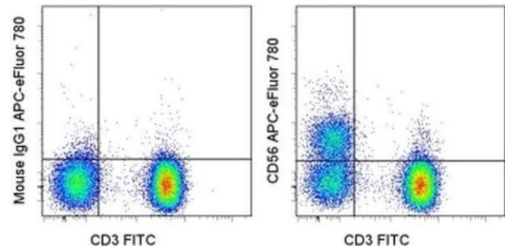
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-

step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD56 (NCAM) Monoclonal Antibody (CMSSB), APC-eFluor™ 780, eBioscience™



CD56 (NCAM) Antibody (47-0567-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD3 FITC (Product # 11-0038-42) and Mouse IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4714-82) (left) or Anti-Human CD56 (NCAM) APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

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15 References

Flow Cytometry (15)

Annals of translational medicine	Year 2023
Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.	
"Published figure using CD56 (NCAM) monoclonal antibody (Product # 47-0567-42) in Flow Cytometry"	
Authors: Hua J,Jiao T,Qiao Y,Zhang S,Xiao T,Zhang Y,Yan J	
Cell death & disease	Year 2022
Lenvatinib for effectively treating antiangiogenic drug-resistant nasopharyngeal carcinoma.	
"Published figure using CD56 (NCAM) monoclonal antibody (Product # 47-0567-42) in Flow Cytometry"	
Authors: Sun Q,Wang Y, Ji H,Sun X,Xie S,Chen L,Li S,Zeng W,Chen R,Tang Q,Zuo J,Hou L,Hosaka K,Lu Y,Liu Y,Ye Y, Yang Y	

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