CD56 (NCAM) Monoclonal Antibody (TULY56), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Non-human primate, Rhesus monkey
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	TULY56
Conjugate	APC-eFluor™ 780
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_2784700

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

Product Specific Information

Description: This TULY56 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 TULY56 does not block binding of CMSSB, suggesting that the two antibodies recognize different epitopes. Additionally, TULY56 performs better after fixation and permeabilization than CMSSB.

The TULY56 monoclonal antibody crossreacts with Rhesus macaque.

Applications Reported: This TULY56 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This TULY56 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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 10^5 to 10^8 cells/test.

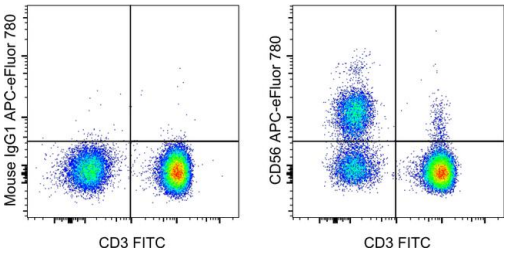
APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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

Product Images For CD56 (NCAM) Monoclonal Antibody (TULY56), APC-eFluor™ 780, eBioscience™



CD56 (NCAM) Antibody (47-0566-42) in Flow
Normal human peripheral blood cells were stained with Anti-Human CD3 FITC (Product # 11-0037-42) 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.

2 References

Flow Cytometry (2)

Journal of Cancer

HDAC Inhibitor, CG-745, Enhances the Anti-Cancer Effect of Anti-PD-1 Immune Checkpoint Inhibitor by Modulation of the Immune Microenvironment.

"Published figure using CD56 (NCAM) monoclonal antibody (Product # 47-0566-42) in Flow Cytometry"

Authors: Kim YD,Park SM,Ha HC,Lee AR,Won H,Cha H,Cho S,Cho JM

Species
Not Applicable

Dilution
Not Cited

Year
2020

Nature communications

Heterogeneity of human bone marrow and blood natural killer cells defined by single-cell transcriptome.

"Published figure using CD56 (NCAM) monoclonal antibody (Product # 47-0566-42) in Flow Cytometry"

Authors: Yang C,Siebert JR,Burns R,Gerbec ZJ,Bonacci B,Rymaszewski A,Rau M,Riese MJ,Rao S,Carlson KS,Routes JM,Verbsky JW,Thakar MS,Malarkannan S

Species
Not Applicable

Dilution
Not Cited

Year
2019