# CD56 (NCAM) Monoclonal Antibody (TULY56), PE-Cyanine5, 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), PE-Cyanine5, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | TULY56 |
| Conjugate | PE-Cyanine5 |
| 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_2802199 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 5 µL (0.125 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 (0.125 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.
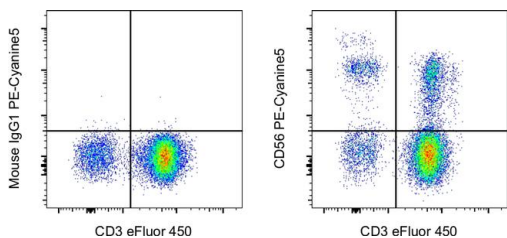
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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

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efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

## Product Images For CD56 (NCAM) Monoclonal Antibody (TULY56), PE-Cyanine5, eBioscience™



**CD56 (NCAM) Antibody (15-0566-42) in Flow**
Normal human peripheral blood cells were stained with CD3e Monoclonal Antibody, eFluor 450 (Product # 48-0038-42) and Mouse IgG1 kappa Isotype Control, PE-Cyanine5 (Product # 15-4714-81) (left) or CD56 Monoclonal Antibody, PE-Cyanine5 (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 # 15-0566-42) 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

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**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 # 15-0566-42) 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

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