

# CD56 (NCAM) Monoclonal Antibody (TULY56), eFluor™ 450, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 100 Tests  |
| Species Reactivity          | Human, Non-human primate, Rhesus monkey                                  |
| Published Species           | Human  |
| Host/Isotype                | Mouse / IgG1, kappa  |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | TULY56   |
| Conjugate                   | eFluor™ 450  |
| 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_2574021   |

| Applications          | Tested Dilution      | Publications   |
|-----------------------|----------------------|----------------|
| Flow Cytometry (Flow) | 5 µL (0.125 µg)/test | 8 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.

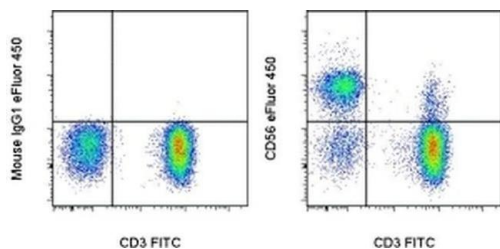
Applications Tested: This TULY56 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD56 (NCAM) Monoclonal Antibody (TULY56), eFluor™ 450, eBioscience™



### CD56 (NCAM) Antibody (48-0566-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD3 FITC (Product # 11-0036-42) and Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (left) or Anti-Human CD56 (NCAM) eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

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## 8 References

### Flow Cytometry (8)

#### Cell reports

#### Human and Mouse Transcriptome Profiling Identifies Cross-Species Homology in Pulmonary and Lymph Node Mononuclear Phagocytes.

"48-0566 was used in Flow cytometry/Cell sorting to create a gene expression compendium across 24 distinct human and murine lung and lymph node mononuclear phagocyte (MP), along with human blood and murine spleen MPs, to serve as validation datasets."

Authors: Leach SM, Gibbings SL, Tewari AD, Atif SM, Vestal B, Danhorn T, Janssen WJ, Wager TD, Jakubczik CV

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

#### 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 # 48-0566-42) 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

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

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