

CD57 Monoclonal Antibody (TB01 (TBO1)), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	TB01 (TBO1)
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573354

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	8 Publications

Product Specific Information

Description: This TB01 monoclonal antibody reacts with human CD57 (also known as HNK-1 and Leu-7), a 110-kDa cell surface glycoprotein expressed on a subset of natural killer (NK) cells and NK T cells.

Applications Reported: This TB01 (TBO1) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This TB01 (TBO1) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1.0 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.

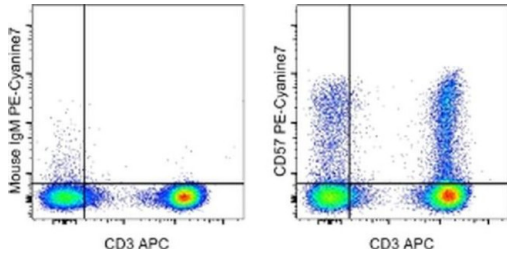
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD57 Monoclonal Antibody (TB01 (TBO1)), PE-Cyanine7, eBioscience™



CD57 Antibody (25-0577-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0036-42) and 1.0 µg of Mouse IgM Isotype Control APC (Product # 17-4752-80) (left) or 1.0 µg of Anti-Human CD57 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.cn](#)

8 References

Flow Cytometry (8)

Aging and disease

Microbially-Induced Exosomes from Dendritic Cells Promote Paracrine Immune Senescence: Novel Mechanism of Bone Degenerative Disease in Mice.

"25-0577-42 was used in Flow cytometry/Cell sorting to conclude that immune senescence, compounded by advanced age, and accelerated by oral dysbiosis and its induced SASP exosomes, plays a pivotal role in the pathophysiology of experimental periodontitis."

Authors: Elsayed R, Elashiry M, Liu Y, Morandini AC, El-Awady A, Elashiry MM, Hamrick M, Cutler CW

Year
2023

Species
Human

Stem cell reviews and reports

Glycan Epitope and Integrin Expression Dynamics Characterize Neural Crest Epithelial-to-Mesenchymal Transition (EMT) in Human Pluripotent Stem Cell Differentiation.

"Published figure using CD57 monoclonal antibody (Product # 25-0577-42) in Flow Cytometry"

Authors: Thomas R, Menon V, Mani R, Pruszk J

Year
2022

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

More applications with references on thermofisher.cn

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