

CD45 Monoclonal Antibody (2D1), Alexa Fluor 700, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2D1
Conjugate	Alexa Fluor® 700
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_2574511

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	9 Publications

Product Specific Information

Description: The 2D1 monoclonal antibody reacts with all isoforms of human CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding circulating erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes.

Applications Reported: This 2D1 antibody has been reported for use in flow cytometric analysis.

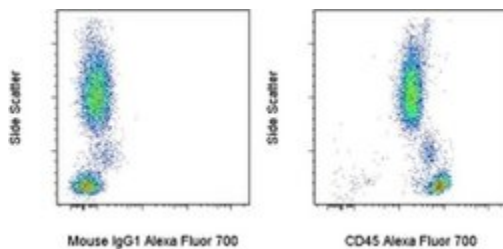
Applications Tested: This 2D1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (2D1), Alexa Fluor 700, eBioscience™



CD45 Antibody (56-9459-42) in Flow

Staining of normal human peripheral blood cells Mouse IgG1 K Isotype Control Alexa Fluor® 700 (Product # 56-4714-80) (left) or Anti-Human CD45 Alexa Fluor® 700 (right). Total viable cells were used for analysis.

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

9 References

Flow Cytometry (9)

Molecular medicine reports

TGF induces periodontal ligament stem cell senescence through increase of ROS production.

"Published figure using CD45 monoclonal antibody (Product # 56-9459-42) in Flow Cytometry"

Authors: Fan C, Ji Q, Zhang C, Xu S, Sun H, Li Z

Species

Not Applicable

Dilution

Not Cited

Year

2019

Obesity (Silver Spring, Md.)

Increased expression of triggering receptor expressed on myeloid cells-1 in the population with obesity and insulin resistance.

"Published figure using CD45 monoclonal antibody (Product # 56-9459-42) in Flow Cytometry"

Authors: Subramanian S, Pallati PK, Rai V, Sharma P, Agrawal DK, Nandipati KC

Species

Not Applicable

Dilution

Not Cited

Year

2017

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