

# CD45 Monoclonal Antibody (2D1), NovaFluor Blue 660-40S, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	2D1
Conjugate	NovaFluor™ Blue 660-40S
Form	Liquid
Concentration	0.6 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.6 µg)/test	-

## 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 4 µL (0.6 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.

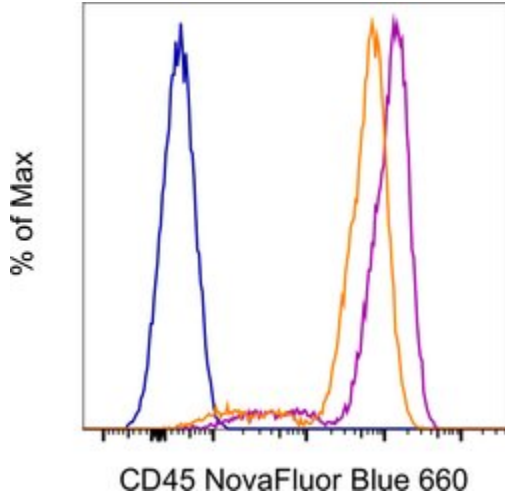
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single-color compensation controls using cells. Use 5 µL of CellBlox Blocking Buffer per stained cell sample containing 10<sup>3</sup> to 10<sup>8</sup> cells.

**Excitation:** 509 nm; **Emission:** 665 nm; **Laser:** 488 nm (Blue) Laser

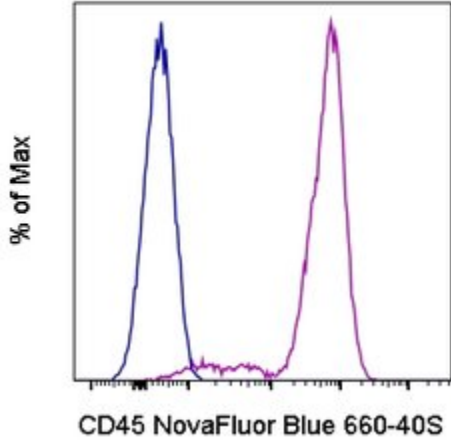
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

## Product Images For CD45 Monoclonal Antibody (2D1), NovaFluor Blue 660-40S, eBioscience™



### CD45 Antibody (H005T03B07) in Flow

Normal human PBMCs were either left unstained (blue histogram) or stained with CD45 Monoclonal Antibody, NovaFluor Blue 660-40S (orange histogram) or CD45 Monoclonal Antibody, NovaFluor Blue 660-120S (h005t03b08) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.



### CD45 Antibody (H005T03B07) in Flow

Normal human peripheral blood cells were either left unstained (blue histogram) or stained with CD45 Monoclonal Antibody, NovaFluor Blue 660-40S (Product # H005T03B07) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.

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