CD3e Monoclonal Antibody (145-2C11), NovaFluor™ Blue 660-120S, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	NovaFluor™ Blue 660-120S
Excitation/Emission Max	492/665 nm
Form	Liquid
Concentration	0.1 mg/mL
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)	1.0 µg/test	-

Product Specific Information

Description: The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

Each product contains 1 vial of NovaFluor conjugate and 1 vial of CellBlox Plus Blocking Buffer .

Applications Reported: This 145-2c11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 145-2c11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

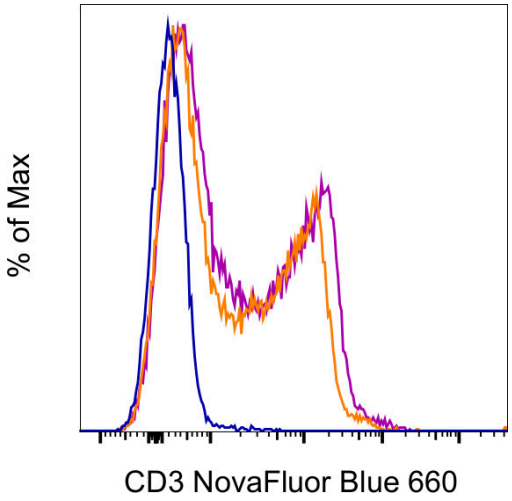
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

This NovaFluor conjugate has been updated to ship with CellBlox Plus Blocking Buffer (Cat. No. (C001T06F01)). This buffer contains formulation improvements over CellBlox. CellBlox Plus Blocking Buffer is required for optimal staining with NovaFluor conjugates and should be used in all experiments where NovaFluor conjugates are used. Whenever possible, we recommend adding CellBlox Plus Blocking Buffer to antibody cocktails/master mixes prior to combining with cells. Add 5 µL per sample (regardless of the number of NovaFluors in your panel) to use the antibody cocktail as intended. For single-color controls, use 5 µL of CellBlox Blocking Buffer per 100 µL of cell sample containing 10^3 to 10^8 cells.

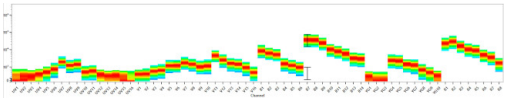
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

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

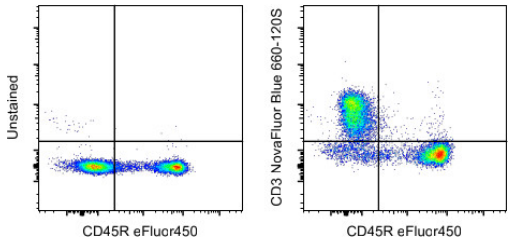
Product Images For CD3e Monoclonal Antibody (145-2C11), NovaFluor™ Blue 660-120S, eBioscience™



CD3e Antibody (M002T02B08-A) in Flow
C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 1 µg of CD3 Monoclonal Antibody, NovaFluor Blue 660-40S (orange histogram) or 1 µg of CD3 Monoclonal Antibody, NovaFluor Blue 660-120S (purple histogram) and acquired in the B7 channel on a 5-laser Cytek Aurora. Cells in the lymphocyte gate were used in the analysis.



CD3e Antibody (M002T02B08-A) in Flow
Spectral signature for NovaFluor Blue 660-120S collected on a 5-laser Cytek Aurora Full Spectrum flow cytometer using Cytek assay settings. Human peripheral blood mononuclear cells were stained with anti-human CD4 (SK3) and signatures displayed following gating on the lymphocyte population.



CD3e Antibody (M002T02B08-A) in Flow
C57BL/6 mouse splenocytes were unstained (left) or stained with 0.6 µg of CD3 Monoclonal Antibody, Novafluor Blue 660-120S (right). All cells were co-stained with CD45R Monoclonal Antibody, eFluor 450 (Product # 48-0452-82). Total viable cells were used for analysis, as determined by LIVE/DEAD Blue (Product # L34962). Data was acquired on a 5-laser Cytek Aurora and unmixed with autofluorescence extraction.