

CD19 Monoclonal Antibody (eBio1D3 (1D3)), NovaFluor™ Blue 660-40S, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	eBio1D3 (1D3)
Conjugate	NovaFluor™ Blue 660-40S
Excitation/Emission Max	508/664 nm
Form	Liquid
Concentration	0.1 mg/mL
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2896746

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.4 µg/test	-

Product Specific Information

Description: The eBio1D3 (1D3) monoclonal antibody reacts with mouse CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, MHC class II, and CD19 form a multimolecular complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells.

Applications Reported: This eBio1D3 (1D3) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio1D3 (1D3) antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.4 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

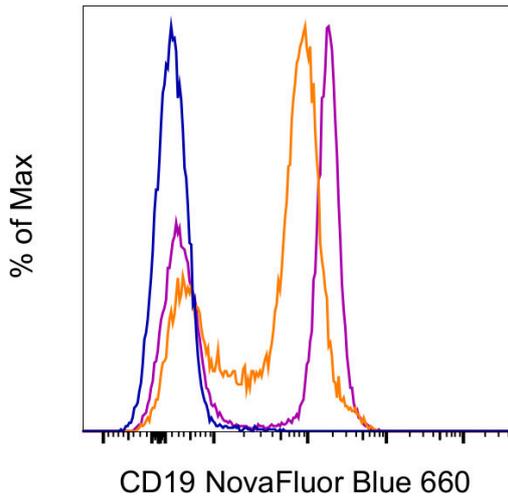
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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. Whenever possible, we recommend adding CellBlox 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 100µL of cell sample containing 10³ to 10⁸ cells.

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

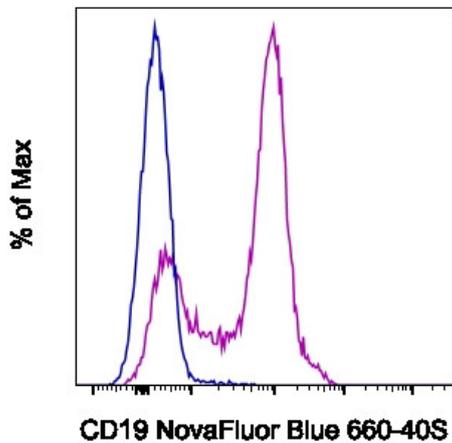
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

Product Images For CD19 Monoclonal Antibody (eBio1D3 (1D3)), NovaFluor™ Blue 660-40S, eBioscience™



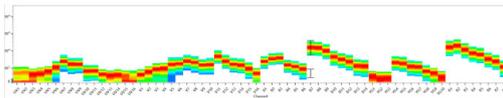
CD19 Antibody (M004T02B07) in Flow

C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 0.4 µg of CD19 Monoclonal Antibody, NovaFluor Blue 660-40S (orange histogram) or 0.4 µg of CD19 Monoclonal Antibody, NovaFluor Blue 660-120S (m004t02b08) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocytes gate were used in the analysis.



CD19 Antibody (M004T02B07) in Flow

C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 0.4 µg of CD19 Monoclonal Antibody, NovaFluor Blue 660-40S (Product # M004T02B07) (purple histogram) and acquired in the B7 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.



CD19 Antibody (M004T02B07) in Flow

Spectral signature for NovaFluor Blue 660-40S collected on a 5-laser Cytex Aurora Full Spectrum flow cytometer using Cytex assay settings. Human peripheral blood mononuclear cells were stained with anti-human CD4 (SK3) and signatures displayed following gating on the lymphocyte population.

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