CD43 Monoclonal Antibody (eBio84-3C1 (84-3C1)), NovaFluor™ Blue 690, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBio84-3C1 (84-3C1)
Conjugate	NovaFluor™ Blue 690
Excitation/Emission Max	672/688 nm
Form	Liquid
Concentration	0.4 µg/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 (0.4 µg)/test	-

Product Specific Information

Description: The monoclonal antibody ebio84-3C1 reacts with CD43, which is also known as leukosialin, galactoglycoprotein and sialophorin. CD43 is a sialomucin which like many mucins can have both adhesive and anti-adhesive functions. Expression of CD43 is found on most leukocytes except resting B lymphocytes. Proteolytic processing upon activation decreases surface expression. CD43 is involved in activation of T cells, B cells, NK cells, and monocytes. The counter-receptor for CD43 is CD169/SIGLEC-1, which is expressed on macrophages.

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

Applications Reported: This ebio84-3C1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This ebio84-3C1 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (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 10^5 to 10^8 cells /test.

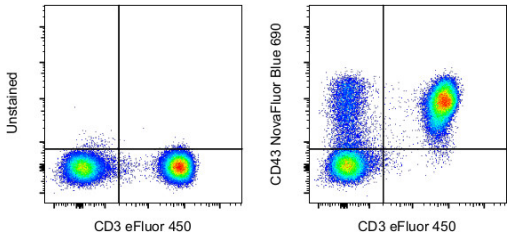
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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.

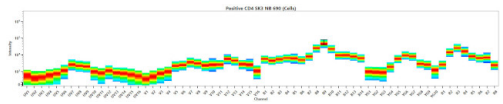
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

Excitation: 494 nm; Emission: 585 nm; Laser: 488 nm (Blue) Laser

Product Images For CD43 Monoclonal Antibody (eBio84-3C1 (84-3C1)), NovaFluor™ Blue 690, eBioscience™



CD43 Antibody (H069T03B09-A) in Flow
Normal human peripheral blood cells were unstained (left) or stained with CD43 Monoclonal Antibody, NovaFluor Blue 690 (right). All cells were co-stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0038-82). Total viable cells in the lymphocyte gate 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.



CD43 Antibody (H069T03B09-A) in Flow
Spectral signature for NovaFluor Blue 690 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.