CD103 (Integrin alpha E) Monoclonal Antibody (B-Ly7), NovaFluor™ Blue 610-70S, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	B-Ly7
Conjugate	NovaFluor™ Blue 610-70S
Excitation/Emission Max	492/616 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 B-Ly7 monoclonal antibody reacts with human CD103, the alpha E integrin. CD103 non-covalently associates with integrin beta 7. CD103 is expressed mainly on intraepithelial lymphocytes and a small subset of peripheral lymphocytes. CD103 is also expressed by hairy cell leukemia (HCL) and by some chronic B cell lymphocytic leukemias. In vitro stimulation of human T cells with mitogens induces upregulation of CD103. Epithelial cell antigen, E-cadherin, binds to CD103 and mediates homing of lymphocytes to the intestinal epithelium.

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

Applications Reported: B-Ly7 has been reported for use in flow cytometric analysis.

Applications Tested: This B-Ly7 antibody has been pre-titrated and tested by flow cytometric analysis of 2-3 day PHA-activated human peripheral blood cells. This can 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.

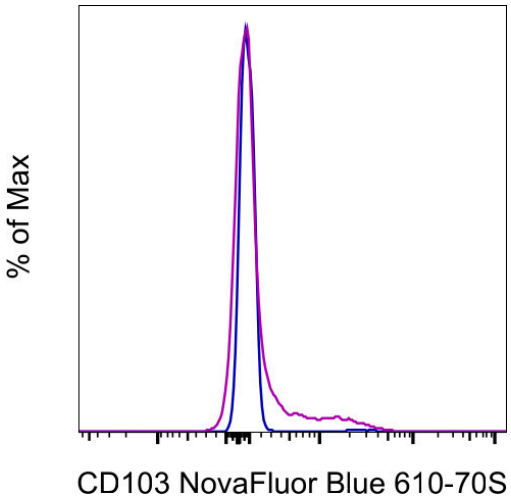
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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.

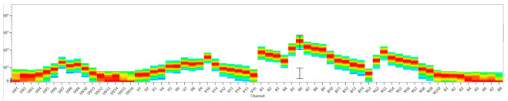
NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

Excitation: 509 nm; Emission: 614 nm; Laser: 488 nm (Blue) Laser

Product Images For CD103 (Integrin alpha E) Monoclonal Antibody (B-Ly7), NovaFluor™ Blue 610-70S, eBioscience™



CD103 (Integrin alpha E) Antibody (H075T03B06-A) in Flow
Staining of unstimulated (blue histogram) or 3-day PHA-stiumulated (purple histogram) normal human peripheral blood cells with CD103 (Integrin alpha E) Monoclonal Antibody, NovaFluor Blue 610-70S (purple histogram). Total viable cells in the total viable cells gate were used for analysis, as determined by LIVE /DEAD Blue (Product # L34962A). Data was acquired on a 5-laser Cytek Aurora and unmixed with autofluorescence extraction.



CD103 (Integrin alpha E) Antibody (H075T03B06-A) in Flow
Spectral signature for NovaFluor Blue 610-70S 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.