

CD157 Monoclonal Antibody (eBioSY11B5 (SY11B5)), NovaFluor™ Red 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioSY11B5 (SY11B5)
Conjugate	NovaFluor™ Red 710
Excitation/Emission Max	637/713 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 eBioSY11B5 monoclonal antibody recognizes human CD157 (Mo5, BST-1). CD157 is a 42-45 kDa, GPI-anchored protein with structural and functional similarities with CD38. CD157 was initially cloned because of its expression on monocytes and macrophages, and was subsequently discovered to be the same protein named BST-1, discovered for its expression on bone marrow stromal cells and its ability to stimulate the proliferation of a mouse pre-B cell line. CD157 is a pleiotropic ectoenzyme and is thought to act independently as an enzyme and receptor. Similar to CD38, CD157 is involved in the metabolism of NAD⁺ and this activity may be involved in regulating intracellular Ca²⁺ levels. As a receptor, upon binding of its putative ligand, CD157 is thought to initiate a signal transduction cascade resulting in the phosphorylation of cytoplasmic proteins including focal adhesion kinase (FAK). The mechanism and functional significance of CD157-initiated signal transduction remain to be fully characterized.

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

Applications Reported: This eBioSY11B5 (SY11B5) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioSY11B5 (SY11B5) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

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.

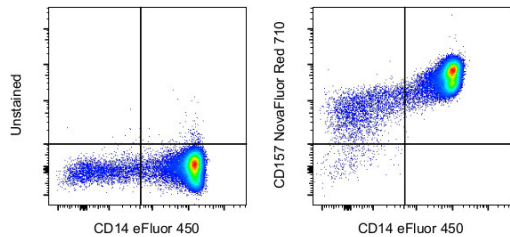
This NovaFluor conjugate has been updated to ship with CellBlox Plus Blocking Buffer (Cat. No. (C001T06F01)). This buffer contains formulation improvements over CellBlox. CellBlox Plus Blocking Buffer is required for optimal staining with NovaFluor

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 10³ to 10⁸ 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

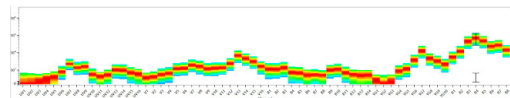
Excitation: 639 nm; Emission: 710 nm; Laser: 633-640 nm (Red) Laser

Product Images For CD157 Monoclonal Antibody (eBioSY11B5 (SY11B5)), NovaFluor™ Red 710, eBioscience™



CD157 Antibody (H041T03R04-A) in Flow

Normal human peripheral blood cells were unstained (left) or stained with CD157 Monoclonal Antibody, NovaFluor Red 710 (right). All cells were co-stained with CD14 Monoclonal Antibody, eFluor 450 (Product # 48-0149-42). Total viable cells in the monocyte gate were used for analysis, as determined by LIVE/DEAD Blue (Product # L34962). Data was acquired on a 5-laser Cytex Aurora and unmixed with autofluorescence extraction.



CD157 Antibody (H041T03R04-A) in Flow

Spectral signature for NovaFluor Red 710 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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