

CD3 Monoclonal Antibody (UCHT1), NovaFluor™ Yellow 690, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	UCHT1
Conjugate	NovaFluor™ Yellow 690
Excitation/Emission Max	551/691 nm
Form	Liquid
Concentration	4 µL/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)	4 µL (0.6 µg)/test	-

Product Specific Information

Description: The UCHT1 monoclonal antibody reacts with human 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. Crosslinking of TCR via immobilized UCHT1 initiates an intracellular biochemical pathway resulting in cellular activation and proliferation.

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

Applications Reported: The UCHT1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This UCHT1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 4 µL (0.6 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.

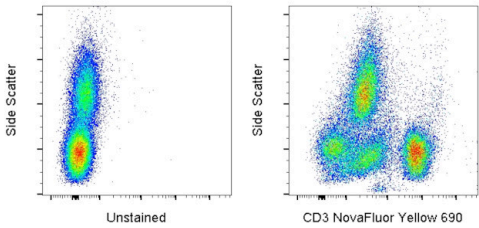
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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

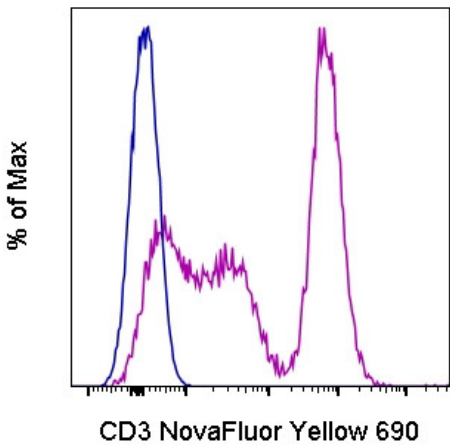
Excitation: 552 nm; Emission: 690 nm; Laser: 561 nm (Yellow) Laser

Product Images For CD3 Monoclonal Antibody (UCHT1), NovaFluor™ Yellow 690, eBioscience™



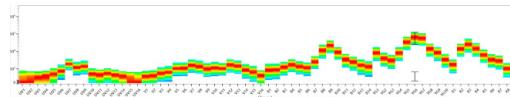
CD3 Antibody (H002T03Y05-A) in Flow

Staining of normal human peripheral blood cells with side scatter and unstained (left) or CD3 Monoclonal Antibody, NovaFluor Yellow 690 (right). Data was acquired in the YG6 channel on a 5-laser Cytex Aurora and singlet cells were used for analysis.



CD3 Antibody (H002T03Y05-A) in Flow

Normal human peripheral blood cells were either left unstained (blue histogram) or stained with CD3 Monoclonal Antibody, NovaFluor Yellow 690 (purple histogram) and acquired in the YG6 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.



CD3 Antibody (H002T03Y05-A) in Flow

Spectral signature for NovaFluor Yellow 690 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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