

# IgE Monoclonal Antibody (Ige21), NovaFluor™ Blue 510, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	Ige21
Conjugate	NovaFluor™ Blue 510
Excitation/Emission Max	493/513 nm
Form	Liquid
Concentration	0.2 µg/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 11.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.2 µg)/test	-

## Product Specific Information

**Description:** The monoclonal antibody IgE21 recognizes the immunoglobulin E class of antibodies. The natural levels of IgE in the serum are quite low, comprising only a small portion of the total immunoglobulin. IgE plays a role in allergy responses by binding to mast cells and basophils through the Fc epsilon receptor I which results in the release of histamine and other molecules. The IgE is produced by terminally differentiated plasma B cells and basophils. Like all immunoglobulins, IgE is expressed as a soluble molecule as well as a membrane bound form. IgE21 recognizes both forms.

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

**Applications Reported:** This Ige21 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This Ige21 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.2 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<sup>5</sup> to 10<sup>8</sup> 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<sup>3</sup> to 10<sup>8</sup> 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: 496 nm; Emission: 511 nm; Laser: 488 nm (Blue) Laser

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