

# CD41a Monoclonal Antibody (HIP8), NovaFluor™ Blue 510, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HIP8
Conjugate	NovaFluor™ Blue 510
Excitation/Emission Max	493/513 nm
Form	Liquid
Concentration	0.6 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 (0.6 µg)/test	-

## Product Specific Information

**Description:** The HIP8 monoclonal antibody reacts with the human CD41 molecule, the integrin  $\alpha$ IIb also known as platelet GPIIb. CD41 non-covalently associates with integrin  $\beta$ 3 (GPIIIa, CD61) and is expressed by megakaryocytes and platelets. The CD41/CD61 complex is a receptor for fibronectin, fibrinogen, von Willebrand factor, vitronectin and thrombospondin and mediates platelets aggregation. HIP8 blocks platelet aggregation.

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

**Applications Reported:** The HIP8 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This HIP8 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.6 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  $10^5$  to  $10^8$  cells /test.

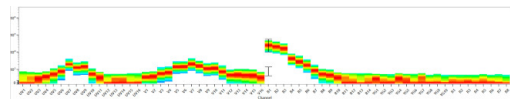
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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: 496 nm; Emission: 511 nm; Laser: 488 nm (Blue) Laser

**Product Images For CD41a Monoclonal Antibody (HIP8), NovaFluor™ Blue 510, eBioscience™**



**CD41a Antibody (H059T03B01-A) in Flow**  
Spectral signature for NovaFluor Blue 510 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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