

# HLA-A2 Monoclonal Antibody (BB7.2), NovaFluor™ Blue 610-70S, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	BB7.2
Conjugate	NovaFluor™ Blue 610-70S
Excitation/Emission Max	492/616 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:** This BB7.2 monoclonal antibody recognizes the human major histocompatibility complex (MHC) class I molecule HLA-A2, which is a member of the HLA-A family. MHC class I exists as a single alpha chain composed of three domains. This molecule associates with beta 2-microglobulin and is expressed on all nucleated cells.

The BB7.2 monoclonal antibody has been reported to exhibit blocking activity, as well as recognize HLA-A28.

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

**Applications Reported:** This BB7.2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This BB7.2 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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<sup>5</sup> to 10<sup>8</sup> cells /test.

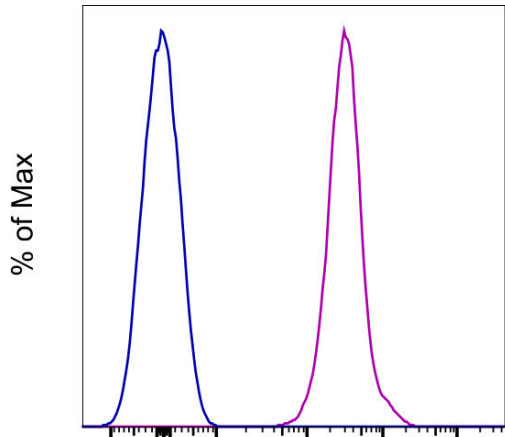
NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

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

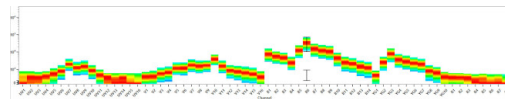
Excitation: 509 nm; Emission: 614 nm; Laser: 488 nm (Blue) Laser

Product Images For HLA-A2 Monoclonal Antibody (BB7.2), NovaFluor™ Blue 610-70S, eBioscience™



HLA-A2 NovaFluor Blue 610-70S

**HLA-A2 Antibody (H070T03B06-A) in Flow**  
Normal human peripheral blood cells were either left unstained (blue histogram) or stained with HLA-A2 Monoclonal Antibody, NovaFluor Blue 610-70S (purple histogram). Total viable cells in the lymphocyte 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.



**HLA-A2 Antibody (H070T03B06-A) in Flow**  
Spectral signature for NovaFluor Blue 610-70S 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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