

MHC Class I (H-2Db) Monoclonal Antibody (28-14-8), NovaFluor™ Yellow 730, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	28-14-8
Conjugate	NovaFluor™ Yellow 730
Excitation/Emission Max	551/730 nm
Form	Liquid
Concentration	0.1 mg/mL
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)	0.6 µg/test	-

Product Specific Information

Description: The 28-14-8 monoclonal antibody reacts with the mouse MHC class I, H-2D^b, and cross-reacts with H-2L^d, H-2D^q and/or H-2L^q. Binding of 28-14-8 to the alpha 3 domain of H-2L^d is not dependent on beta2-microglobulin.

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

Applications Reported: This 28-14-8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 28-14-8 antibody has been tested by flow cytometric analysis of mouse splenocytes and can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

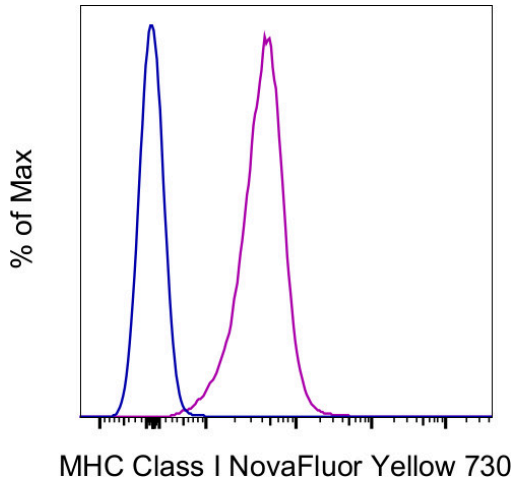
This NovaFluor conjugate has been updated to ship with CellBlox Plus Blocking Buffer (Cat. No. (C001T06F01)). This buffer contains formulation improvements over CellBlox. CellBlox Plus Blocking Buffer is required for optimal staining with NovaFluor conjugates and should be used in all experiments where 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

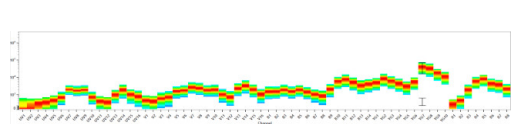
Excitation: 552 nm; Emission: 718 nm; Laser: 561 nm (Yellow) Laser

Our internal testing shows that NovaFluor Yellow 730 non-specifically stains B cells in SJL mice. Non-specific staining has not been observed in BALB/c or C57BL/6 mice. Other strains have not been tested. See the Antibody Testing Data for an example of this strain-dependent difference.

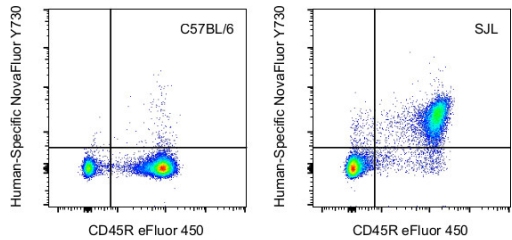
Product Images For MHC Class I (H-2Db) Monoclonal Antibody (28-14-8), NovaFluor™ Yellow 730, eBioscience™



MHC Class I (H-2Db) Antibody (M038T03Y07-A) in Flow
C57BL/6 mouse splenocytes were either left unstained (blue histogram) or stained with 0.6 µg of MHC Class I (H-2Db) Monoclonal Antibody, NovaFluor Yellow 730 (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.



MHC Class I (H-2Db) Antibody (M038T03Y07-A) in Flow
Spectral signature for NovaFluor Yellow 730 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.



MHC Class I (H-2Db) Antibody (M038T03Y07-A) in Flow
NovaFluor Yellow 730 non-specific staining of B cells in the SJL strain of mice. Splenocytes from C57BL/6 (left) and SJL (right) strains of mice were stained with Anti-Mouse CD45R (B220) Monoclonal Antibody conjugated to eFluor 450 and a non-cross-reactive, human-specific monoclonal antibody conjugated to NovaFluor Yellow 730. These data show that NovaFluor Yellow 730-conjugated antibodies non-specifically stain B cells in SJL mice (right). Non-specific staining has not been observed in C57BL/6 (left) mice and BALB/c mice (data not shown).

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