

# CD2 Monoclonal Antibody (RPA-2.10), NovaFluor™ Yellow 570, eBioscience™

Product Details	
Size	100 Tests
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	RPA-2.10
Conjugate	NovaFluor™ Yellow 570
Excitation/Emission Max	551/566 nm
Form	Liquid
Concentration	0.05 µg/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2926138

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.05 µg)/test	-

## Product Specific Information

**Description:** The RPA-2.10 monoclonal antibody reacts with human CD2, a 50 kDa cell surface receptor expressed by a majority of thymocytes, all mature T cells and subset of NK cells. CD2 is a ligand for CD58 in the human and is involved in adhesion and activation of T cells. RPA-2.10 blocks mixed lymphocyte reaction.

RPA-2.10 crossreacts to non-human primates and pigs. IRPA-2.10 crossreacts to non-human primates and pigs.

**Applications Reported:** The RPA-2.10 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This RPA-2.10 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 5 µL (0.05 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. 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.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single-color compensation controls using cells. Whenever possible, we recommend adding CellBlox 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 100µL 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: 552 nm; Emission: 568 nm; Laser: 561 nm (Yellow) Laser

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