

## Anti-Human CD2 Antibody, Clone RPA-2.10, PE



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## Antibodies

Mouse monoclonal IgG1 antibody  
against human, rhesus, cynomolgus  
CD2, PE-conjugated

Catalog #100-0431	500 Tests	5 µL (0.125 µg)/test (25 µg/mL)
#60007PE	100 Tests	5 µL (0.125 µg)/test (25 µg/mL)
#60007PE.1	25 Tests	5 µL (0.125 µg)/test (25 µg/mL)

## Product Description

The RPA-2.10 antibody reacts with CD2, an ~50 kDa type I transmembrane glycoprotein and a member of the immunoglobulin (Ig) superfamily; two Ig-like domains are located in its extracellular portion. CD2 is broadly expressed on peripheral T and NK cells, dendritic cells, erythrocytes, most thymic T cells, subsets of thymic B cells, and on the endothelium. CD2 expression appears early during T cell differentiation. Aberrant expression has been observed in some lymphomas and myeloid leukemias. CD2 is critically important for T cell activation and signaling, as well as lymphocyte adhesion. The primary ligand for CD2 is CD58 (LFA-3) located on antigen-presenting cells, with additional ligands comprising CD15 (SSEA-1), CD48, and CD59. Notably, the RPA-2.10 antibody blocks the mixed lymphocyte reaction.

Target Antigen Name:	CD2
Alternative Names:	LFA-2, SRBC-R, T11
Gene ID:	914
Species Reactivity:	Human, Rhesus, Cynomolgus, Baboon, Chimpanzee, Capuchin Monkey, Pigtailed Macaque, Squirrel Monkey, Pig
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	RPA-2.10
Isotype:	IgG1, kappa
Immunogen:	Human CD2 recombinant protein
Conjugate:	PE (Phycoerythrin)

## Applications

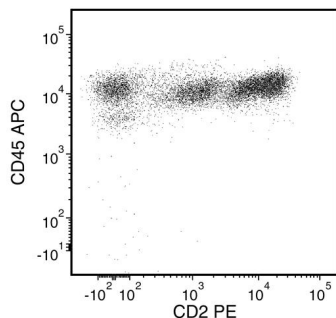
Verified:	CellSep, FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ HLA Chimerism Whole Blood CD3 Positive Selection Kit (Catalog #17871).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide, 0.1% gelatin, and < 0.2% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 0.125 µg per 1 x 10 <sup>6</sup> cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD2 Antibody, Clone RPA-2.10, PE and anti-human CD45 APC.

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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