

CD2 Monoclonal Antibody (RPA-2.10), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Baboon, Chimpanzee, Cynomolgus monkey, Human, Non-human primate, Pig, Rhesus monkey
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-2.10
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574006

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	5 Publications

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.

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

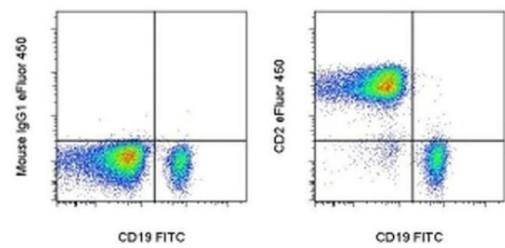
Applications Tested: This RPA-2.10 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD2 Monoclonal Antibody (RPA-2.10), eFluor™ 450, eBioscience™



CD2 Antibody (48-0029-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (Product # 11-0199-42) and Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (left) or Anti-Human/Non-Human Primate CD2 eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

6 References

Immunohistochemistry (Frozen) (1)

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society	Year 2009
A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates.	
Authors: Kap YS,van Meurs M,van Driel N,Koopman G,Melief MJ,Brok HP,Laman JD,'t Hart BA	

Flow Cytometry (5)

Biophysical journal	Year 2019
Constraints on GPCR Heterodimerization Revealed by the Type-4 Induced-Association BRET Assay.	
"Published figure using CD2 monoclonal antibody (Product # 48-0029-42) in Flow Cytometry"	
Authors: Felce JH,MacRae A,Davis SJ	

European journal of immunology	Year 2016
Tissue factor expression by myeloid cells contributes to protective immune response against Mycobacterium tuberculosis infection.	
"48-0029 was used in Flow cytometry/Cell sorting to determine the role of tissue factor expressed by myeloid cells during Mycobacterium tuberculosis infection."	
Authors: Venkatasubramanian S,Tripathi D,Tucker T,Paidipally P,Cheekatla S,Welch E,Ragunath A,Jeffers A, Tvinnereim AR,Schechter ME,Andrade BB,Mackman N,Idell S,Vankayalapati R	

[View more Flow references on thermofisher.com](#)

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