CD4 Monoclonal Antibody (RPA-T4), Brilliant Ultra Violet™ 496, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Ultra Violet™ 496, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	Brilliant Ultra Violet™ 496
Excitation/Emission Max	348/493 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2925320

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	-

Product Specific Information

Description
The RPA-T4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). RPA-T4 blocks HIV binding and mixed lymphocyte reaction. The RPA-T4 antibody recognizes a different epitope than the OKT4 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes.

Applications Tested
This RPA-T4 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.25 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 10^5 to 10^8 cells/test.

Blocking Buffers
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) or Brilliant Stain Buffer (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Light sensitivity
This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation
• Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation.
• Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 350 nm; Emission: 496 nm; Laser: Ultraviolet Laser.

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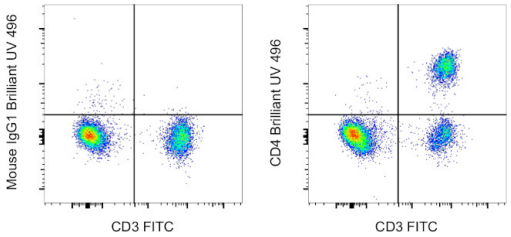
Please note: We are reviewing Western blot images included in the antibody testing data in our catalog, including those provided by third parties. Unless expressly labeled or annotated as "raw-unedited", Western blot images included in the antibody testing data in our catalog may have been edited, optimized or otherwise adjusted for presentation.

Product Images For CD4 Monoclonal Antibody (RPA-T4), Brilliant Ultra Violet™ 496, eBioscience™



CD4 Antibody (364-0049-41) in Flow
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0038-42) and Mouse IgG1 kappa Isotype Control, Brilliant Ultra Violet 496 (Product # 364-4714-81) (left) or CD4 Monoclonal Antibody, Brilliant Ultra Violet 496 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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