CD8a Monoclonal Antibody (RPA-T8), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T8
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_1272046

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	34 Publications

Product Specific Information

Description: The RPA-T8 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells.

Applications Reported: This RPA-T8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RPA-T8 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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

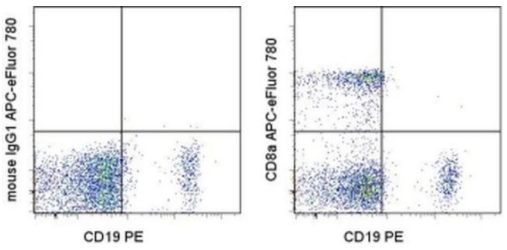
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (RPA-T8), APC-eFluor™ 780, eBioscience™



CD8a Antibody (47-0088-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 PE (Product # 12-0199-80) and Mouse IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4714-82) (left) or Anti-Human CD8a APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

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34 References

Flow Cytometry (34)

Nature microbiology

Inactivated whole-virion vaccine BBV152/Covaxin elicits robust cellular immune memory to SARS-CoV-2 and variants of concern.

"47-0088-42 was used in Flow cytometry/Cell sorting to show that inactivated vaccine BBV152 induces robust immune memory to SARS-CoV-2 and variants of concern that persists for at least 6 months after vaccination."

Authors: Vikkurthi R,Ansari A,Pai AR,Jha SN,Sachan S,Pandit S,Nikam B,Kalia A,Jit BP,Parray HA,Singh S,Kshetrapal P,Wadhwa N,Shrivastava T,Coshic P,Kumar S,Sharma P,Sharma N,Taneja J,Pandey AK,Sharma A,Thiruvengadam R,Grifoni A,Weiskopf D,Sette A,Bhatnagar S,Gupta N

Year
2022

Species
Human

Frontiers in immunology

Safety and Immunogenicity of Malaria Vectored Vaccines Given with Routine Expanded Program on Immunization Vaccines in Gambian Infants and Neonates: A Randomized Controlled Trial.

Authors: Mensah VA,Roetynck S,Kanteh EK,Bowyer G,Ndaw A,Oko F,Bliss CM,Jagne YJ,Cortese R,Nicosia A,Roberts R,D'Alessio F,Leroy O,Faye B,Kampmann B,Cisse B,Bojang K,Gerry S,Viebig NK,Lawrie AM,Clarke E,Imoukhuede EB,Ewer KJ,Hill AVS,Afolabi MO

Year
2022

Species
Human

Dilution
1:10

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