

CD8a Monoclonal Antibody (OKT8 (OKT-8)), APC-eFluor™ 780, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Non-human primate, Human, Rhesus monkey
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	OKT8 (OKT-8)
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_2573945

Applications

Tested Dilution

Publications

Flow Cytometry (Flow)	5 µL (0.25 µg)/test	28 Publications
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Product Specific Information

Description: The OKT8 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 alphaalpha). 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. Preliminary testing indicates that OKT8 and two other mouse anti-human CD8 antibodies (clone RPA-T8, Cat. No.14-0088 and clone HIT8a, Cat. No.14-0089) do not compete with each other for binding to human peripheral blood leukocytes by flow cytometric analysis, suggesting that they do not bind to similar epitopes or block each other by steric hindrance.

Applications Reported: This OKT8 (OKT-8) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OKT8 (OKT-8) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 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 10⁵ to 10⁸ 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 fluorochrome.

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

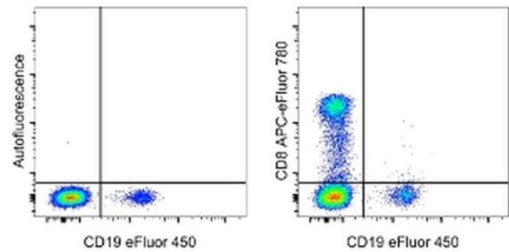
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-

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 (OKT8 (OKT-8)), APC-eFluor™ 780, eBioscience™



CD8a Antibody (47-0086-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (Product # 48-0198-42) and staining buffer (autofluorescence) (left) or Anti-Human CD8a APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

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28 References

Flow Cytometry (28)

Frontiers in pharmacology	Year 2023
Disruption of PD-1 Enhanced the Anti-tumor Activity of Chimeric Antigen Receptor T Cells Against Hepatocellular Carcinoma.	
"Published figure using CD8a monoclonal antibody (Product # 47-0086-42) in Flow Cytometry"	
Authors: Guo X,Jiang H,Shi B,Zhou M,Zhang H,Shi Z,Du G,Luo H,Wu X,Wang Y,Sun R,Li Z	
Nature immunology	Year 2023
Autoantibodies against chemokines post-SARS-CoV-2 infection correlate with disease course.	Species Human
"47-0086-42 was used in Flow cytometry/Cell sorting to show that given the role of chemokines in orchestrating immune cell trafficking, naturally arising chemokine antibodies may modulate the inflammatory response and thus bear therapeutic potential."	
Authors: Muri J,Cecchinato V,Cavalli A,Shanbhag AA,Matkovic M,Biggioigero M,Maida PA,Moritz J,Toscano C,Ghovehoud E,Furlan R,Barbic F,Voza A,De Nadai G,Cervia C,Zurbuchen Y,Taeschler P,Murray LA,Danelon-Sargenti G,Moro S,Gong T,Piffaretti P,Bianchini F,Crivelli V,Podešvová L,Pedotti M,Jarrossay D,Sgrignani J,Thelen S,Uhr M,Bernasconi E,Rauch A,Manzo A,Ciurea A,Rocchi MBL,Varani L,Moser B,Bottazzi B,Thelen M,Fallon BA,Boyman O,Mantovani A,Garzoni C,Franzetti-Pellanda A,Uguccioni M,Robbiani DF	

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