

CD8a Monoclonal Antibody (OKT8 (OKT-8)), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT8 (OKT-8)
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10732344

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.03 µg)/test	18 Publications

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.

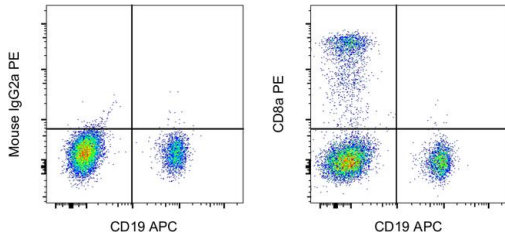
Applications Reported: This OKT8 (OKT-8) antibody has been reported for use in flow cytometric analysis.

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 (0.03 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (OKT8 (OKT-8)), PE, eBioscience™



CD8a Antibody (12-0086-42) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, APC (Product # 17-0199-42) and Mouse IgG2a kappa Isotype Control, PE (Product # 12-4724-82) (left) or CD8a Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.

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18 References

Flow Cytometry (18)

Theranostics

Single-cell transcriptome analysis of the heterogeneous effects of differential expression of tumor PD-L1 on responding TCR-T cells.

"12-0086-42 was used in Flow Cytometry to evaluate how tumor expression of PD-L1 affects T cell functionality in anti-cancer TCR-T cell therapy."

Authors: Ding R,Liu S,Wang S,Chen H,Wang F,Xu Q,Zhu L,Dong X,Gu Y,Zhang X,Chao CC,Gao Q

Species
Human

Dilution
Not Cited

Year
2021

Nature communications

Single-cell RNA sequencing reveals ex vivo signatures of SARS-CoV-2-reactive T cells through 'reverse phenotyping'.

"12-0086-42 was used in Flow Cytometry to characterize the phenotypic profiles of SARS-CoV-2 antigen-reactive T cells."

Authors: Fischer DS,Ansari M,Wagner KI,Jarosch S,Huang Y,Mayr CH,Strunz M,Lang NJ,D'Ippolito E,Hammel M,Mateyka L,Weber S,Wolff LS,Witter K,Fernandez IE,Leuschner G,Milger K,Frankenberger M,Nowak L,Heinig-Menhard K,Koch I,Stoleriu MG,Hilgendorff A,Behr J,Pichlmair A,Schubert B,Theis FJ,Busch DH,Schiller HB,Schober K

Species
Human

Dilution
1:200

Year
2021

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More applications with references on thermofisher.com

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