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

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Ferret, Non-human primate, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT8 (OKT-8)
Conjugate	APC
Excitation/Emission Max	651/660 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_10669587

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	30 Publications
T-Cell Activation (TCA)	-	1 Publication

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 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. Preliminary testing indicates that OKT8 and two other mouse anti-human CD8 antibodies (clone RPA-T8, Product # 14-0088 and clone HIT8a, Product # 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.

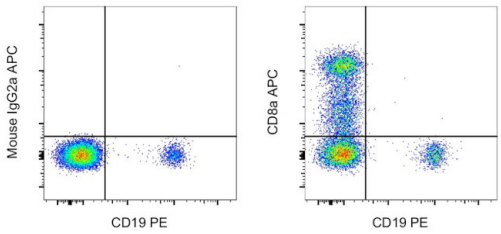
Applications Reported: This OKT8 (OKT-8) antibody has been reported for use in flow cytometric analysis.

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 (0.06 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 10^5 to 10^8 cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD8a Antibody (17-0086-41) in Flow
Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, PE (Product # 12-0199-42) and Mouse IgG2a kappa Isotype Control, APC (Product # 17-4724-81) (left) or CD8a Monoclonal Antibody, APC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

31 References

Flow Cytometry (30)

Frontiers in pharmacology

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 # 17-0086-42) 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

Year
2023

Frontiers in immunology

Robust spike-specific CD4$^+$ and CD8$^+$ T cell responses in SARS-CoV-2 vaccinated hematopoietic cell transplantation recipients: a prospective, cohort study.

"Published figure using CD8a monoclonal antibody (Product # 17-0086-42) in Flow Cytometry"

Authors: Federico L,Tvedt THA,Gainullin M,Osen JR,Chaban V,Lund KP,Tietze L,Tran TT,Lund-Johansen F,Kared H,Lind A,Vaage JT,Stratford R,Tennøe S,Malone B,Clancy T,Myhre AEL,Gedde-Dahl T,Munthe LA

Year
2023

View more Flow references on thermofisher.cn

T-Cell Activation (1)

EBioMedicine

Fecal Microbiota Composition Drives Immune Activation in HIV-infected Individuals.

"17-0086-42 was used in T-Cell Activation to show that the enteric microbiota of untreated HIV-infected subjects induce significantly higher levels of activated monocytes and T cells compared to seronegative subjects."

Authors: Neff CP,Krueger O,Xiong K,Arif S,Nusbacher N,Schneider JM,Cunningham AW,Armstrong A,Li S,McCarter MD,Campbell TB,Lozupone CA,Palmer BE

Year
2018

Species
Human

More applications with references on thermofisher.cn

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.