

CD4 Monoclonal Antibody (OKT4 (OKT-4)), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Hamster, Mouse, Human, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_10718539

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	29 Publications

Product Specific Information

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

Applications Reported: This OKT4 (OKT-4) antibody has been reported for use in flow cytometric analysis.

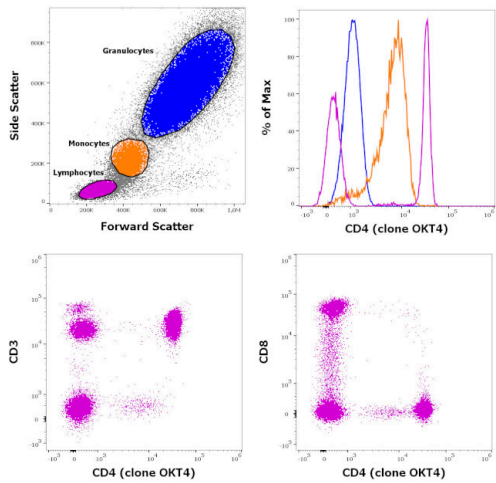
Applications Tested: This OKT4 (OKT-4) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

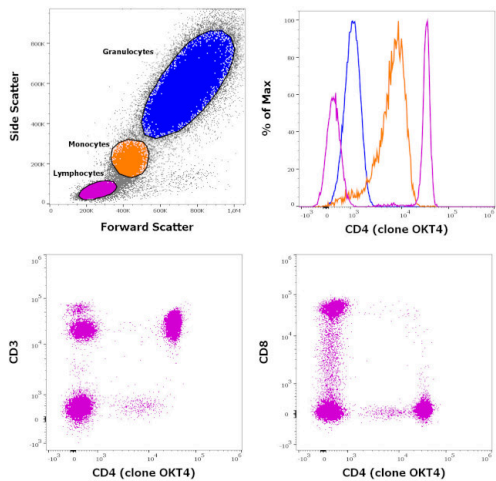
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD4 Monoclonal Antibody (OKT4 (OKT-4)), Alexa Fluor™ 700, eBioscience™



CD4 Antibody (56-0048-41)

Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 FITC, CD8 PE and CD4 Alexa Fluor 700. As expected based on known relative expression patterns, CD4 clone OKT4 (OKT-4) stains a subset of lymphocytes (pink) and monocytes (orange), but not granulocytes (blue). {RE}



CD4 Antibody (56-0048-41) in Flow

Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 FITC, CD8 PE and CD4 Alexa Fluor 700. As expected based on known relative expression patterns, CD4 clone OKT4 (OKT-4) stains a subset of lymphocytes (pink) and monocytes (orange), but not granulocytes (blue).

View more figures on thermofisher.com

Immunohistochemistry (1)

<p>PloS one</p> <p>An increased abundance of tumor-infiltrating regulatory T cells is correlated with the progression and prognosis of pancreatic ductal adenocarcinoma.</p> <p>"Published figure using CD4 monoclonal antibody (Product # 56-0048-41) in Immunohistochemistry"</p> <p>Authors: Tang Y,Xu X,Guo S,Zhang C,Tang Y,Tian Y,Ni B,Lu B,Wang H</p>	<p>Year 2015</p>
--	-----------------------------

Immunocytochemistry (2)

<p>Cell reports</p> <p>Affinity for the Interface Underpins Potency of Antibodies Operating In Membrane Environments.</p> <p>"56-0048-41 was used in Immunocytochemistry to investigate the harnessing effect of interfacial affinity through site-selective chemical modification to optimize the function of antibodies that target membrane-proximal epitopes."</p> <p>Authors: Rujas E,Insausti S,Leaman DP,Carravilla P,González-Resines S,Monceaux V,Sánchez-Eugenia R,García-Porras M,Illoro I,Zhang L,Elortza F,Julien JP,Saéz-Ciri6n A,Zwick MB,Eggeling C,Ojida A,Domene C,Caaveiro JMM,Nieva JL</p>	<p>Year 2020</p> <p>Species Human</p>
--	---

<p>Blood</p> <p>CD4-CCR5 interaction in intracellular compartments contributes to receptor expression at the cell surface.</p> <p>"Published figure using CD4 monoclonal antibody (Product # 56-0048-41) in Immunofluorescence"</p> <p>Authors: Achour L,Scott MG,Shirvani H,Thuret A,Bismuth G,Labbé-Jullié C,Marullo S</p>	<p>Year 2009</p> <p>Species Human Hamster</p>
--	---

Flow Cytometry (29)

<p>Disease markers</p> <p>Estrogen Protects against Renal Ischemia-Reperfusion Injury by Regulating Th17/Treg Cell Immune Balance.</p> <p>"Published figure using CD4 monoclonal antibody (Product # 56-0048-41) in Flow Cytometry"</p> <p>Authors: Zhang Y,Chang Y,Han Z,Ma K,Zeng X,Li L</p>	<p>Year 2022</p>
--	-----------------------------

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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 IMPLIED, 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.