CD4 Monoclonal Antibody (OKT4 (OKT-4)), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Hamster, Human, Mouse
Host/Isotope	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	FITC
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_1633390

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	39 Publications
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Western Blot (WB)	-	1 Publication

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.

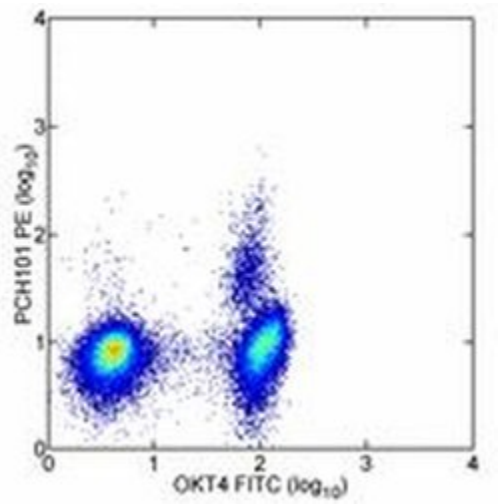
Applications Reported: This OKT4 (OKT-4) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OKT4 (OKT-4) antibody is offered in 2 formats: - µg size: has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: 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 10^5 to 10^8 cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD4 Monoclonal Antibody (OKT4 (OKT-4)), FITC, eBioscience™



CD4 Antibody (11-0048-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD4 FITC followed by intracellular staining with Anti-Human Foxp3 PE (Product # 12-4776-42) using the Foxp3 Staining Buffers (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

42 References

Flow Cytometry (39)

Molecular medicine reports

Umbilical cord bloodderived Heliospositive regulatory T cells promote angiogenesis in acute lymphoblastic leukemia in mice via CCL22 and the VEGFAVEGFR2 pathway.

"11-0048 was used in Flow cytometry/Cell sorting to elucidate the mechanisms underlying the role of regulatory T cells in acute lymphoblastic leukaemia."

Authors: Li X,Li D,Shi Q,Huang X,Ju X

Species
Human

Dilution
Not Cited

Year
2019

Malaria journal

High purity high yield tandem B and T helper cell isolation for qRT-PCR analysis suitable for basically equipped laboratories.

"11-0048 was used in Flow cytometry/Cell sorting to describe a protocol that is likely to be of avail for many scientists performing malaria research in rural institutes or hospitals, and thus in countries where malaria is most prevalent."

Authors: Summerauer AM,Colombo L,Ogwang R,Berger C,Fehr J,Bürgler S

Species
Human

Dilution
1:80

Year
2018

View more Flow references on thermofisher.com

Immunohistochemistry (1)

PloS one

An increased abundance of tumor-infiltrating regulatory T cells is correlated with the progression and prognosis of pancreatic ductal adenocarcinoma.

"11-0048 was used in Flow cytometry/Cell sorting to reveal Tregs may promote PDA progression by inhibiting the antitumour immunity of CD8+ T cells at local intratumoural sites."

Authors: Tang Y,Xu X,Guo S,Zhang C,Tang Y,Tian Y,Ni B,Lu B,Wang H

Species
Human

Dilution
Not Cited

Year
2015

Immunofluorescence (1)

Blood

CD4-CCR5 interaction in intracellular compartments contributes to receptor expression at the cell surface.

"Published figure using CD4 monoclonal antibody (Product # 11-0048-42) in Flow Cytometry"

Authors: Achour L,Scott MG,Shirvani H,Thuret A,Bismuth G,Labbé-Jullié C,Marullo S

Species
Human
Hamster

Dilution
Not Cited
Not Cited

Year
2009

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WB (1)