

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

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Hamster, Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	FITC
Excitation/Emission Max	498/517 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_1633391

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	59 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.

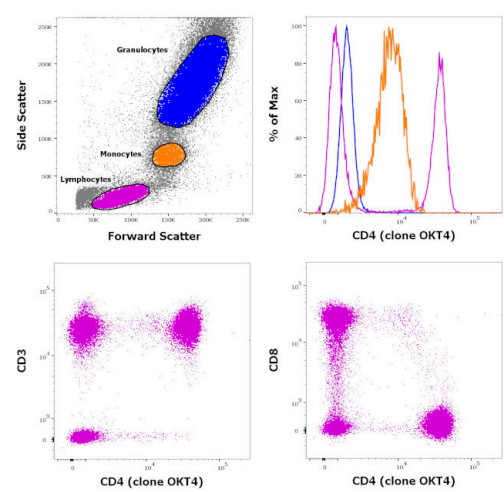
**Applications Reported:** This OKT4 (OKT-4) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This OKT4 (OKT-4) antibody 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<sup>5</sup> to 10<sup>8</sup> 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<sup>5</sup> to 10<sup>8</sup> cells/test.

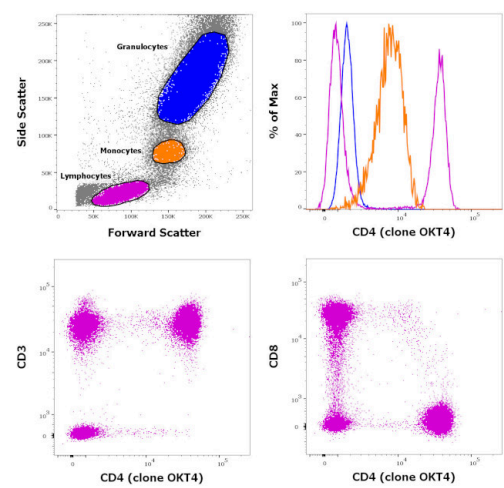
**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

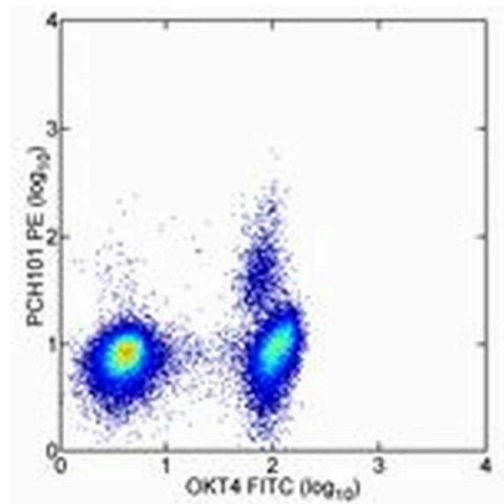
Product Images For CD4 Monoclonal Antibody (OKT4 (OKT-4)), FITC, eBioscience™



**CD4 Antibody (11-0048-41)**  
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8 PerCP and CD4 FITC. 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 (11-0048-41) in Flow**  
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8 PerCP and CD4 FITC. 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).



**CD4 Antibody (11-0048-41) 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.

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Western Blot (1)

<p>Blood</p> <p><b>CD4-CCR5 interaction in intracellular compartments contributes to receptor expression at the cell surface.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 11-0048-42) in Flow Cytometry"</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>
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Immunohistochemistry (1)

<p>PloS one</p> <p><b>An increased abundance of tumor-infiltrating regulatory T cells is correlated with the progression and prognosis of pancreatic ductal adenocarcinoma.</b></p> <p>"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."</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> <p>Species Human</p>
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Immunocytochemistry (1)

<p>Blood</p> <p><b>CD4-CCR5 interaction in intracellular compartments contributes to receptor expression at the cell surface.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 11-0048-42) in Flow Cytometry"</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>
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Flow Cytometry (59)

<p>Disease markers</p> <p><b>Estrogen Protects against Renal Ischemia-Reperfusion Injury by Regulating Th17/Treg Cell Immune Balance.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 11-0048-42) in Flow Cytometry"</p> <p>Authors: Zhang Y,Chang Y,Han Z,Ma K,Zeng X,Li L</p>	<p>Year 2022</p>
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