

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

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Cynomolgus monkey, Hamster, Human, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_529523

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	24 Publications
ELISA (ELISA)	-	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

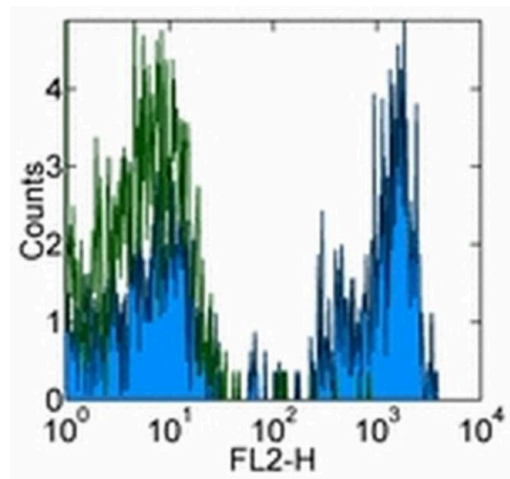
Product Specific Information

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 has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.



CD4 Antibody (13-0048-82) in Flow

Staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control Biotin (Product # 13-4732-85) (open histogram) or Anti-Human CD4 Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

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Western Blot (1)

<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 # 13-0048-82) in Immunofluorescence"</p> <p>Authors: Achour L,Scott MG,Shirvani H,Thuret A,Bismuth G,Labbé-Jullié C,Marullo S</p>	<p>Year</p> <p>2009</p> <p>Species</p> <p>Human</p> <p>Hamster</p>
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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 # 13-0048-82) 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</p> <p>2015</p>
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Immunocytochemistry (1)

<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 # 13-0048-82) in Immunofluorescence"</p> <p>Authors: Achour L,Scott MG,Shirvani H,Thuret A,Bismuth G,Labbé-Jullié C,Marullo S</p>	<p>Year</p> <p>2009</p> <p>Species</p> <p>Human</p> <p>Hamster</p>
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Flow Cytometry (24)

<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 # 13-0048-82) in Flow Cytometry"</p> <p>Authors: Zhang Y,Chang Y,Han Z,Ma K,Zeng X,Li L</p>	<p>Year</p> <p>2022</p>
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[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

- ELISA (3)
- Misc (1)

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