

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

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Hamster, Human
Host/Isotope	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_468868

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1 µg/test	11 Publications
Immunohistochemistry (IHC)	-		1 Publication
Immunofluorescence (IF)	-		1 Publication
Western Blot (WB)	-		1 Publication
Control (Ctrl)	✓	Assay-Dependent	
Functional Assay (FN)	✓	Assay-Dependent	
Immunoprecipitation (IP)	✓	Assay-Dependent	

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 and immunoprecipitation.

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 1 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.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

14 References

Flow Cytometry (11)

Nature communications

Complement receptor CD46 co-stimulates optimal human CD8⁺ T cell effector function via fatty acid metabolism.

"Published figure using CD4 monoclonal antibody (Product # 16-0048-81) in Flow Cytometry"

Authors: Arbore G, West EE, Rahman J, Le Friec G, Niyonzima N, Pirooznia M, Tunc I, Pavlidis P, Powell N, Li Y, Liu P, Servais A, Couzi L, Fremeaux-Bacchi V, Placais L, Ferraro A, Walsh PR, Kavanagh D, Afzali B, Lavender P, Lachmann HJ, Kemper C

Species
Not Applicable

Dilution
Not Cited

Year
2018

Oncology letters

Accumulation of T-helper 22 cells, interleukin-22 and myeloid-derived suppressor cells promotes gastric cancer progression in elderly patients.

"Published figure using CD4 monoclonal antibody (Product # 16-0048-81) in Flow Cytometry"

Authors: Chen X, Wang Y, Wang J, Wen J, Jia X, Wang X, Zhang H

Species
Not Applicable

Dilution
Not Cited

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.

"Published figure using CD4 monoclonal antibody (Product # 16-0048-81) in Immunohistochemistry"

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

Species
Not Applicable

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 # 16-0048-81) 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

More applications with references on thermofisher.com

WB (1)

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