

CD4 Monoclonal Antibody (GK1.5), APC, eBioscience™

Size100 μgSpecies ReactivityMousePublished SpeciesHamster, Mouse, HumanHost/IsotypeRat / IgG2b, kappaRecommended Isotype ControlRat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™ClassMonoclonalTypeAntibody	Product Details	
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Control Class Monoclonal Type Antibody	Host/Isotype	Rat / IgG2b, kappa
Type Antibody		Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
	Class	Monoclonal
Clare CVA 5	Туре	Antibody
Clone GK1.5	Clone	GK1.5
Conjugate APC	Conjugate	APC
Form Liquid	Form	Liquid
Concentration 0.2 mg/mL	Concentration	0.2 mg/mL
Purification Affinity chromatography	Purification	Affinity chromatography
Storage buffer PBS, pH 7.2, with 0.1% gelatin	Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains 0.09% sodium azide	Contains	0.09% sodium azide
Storage conditions 4° C, store in dark, DO NOT FREEZE!	Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID AB_469320	RRID	AB_469320

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 μg/test	159 Publications
Functional Assay (FN)	-	2 Publications
In vitro Assay (IV)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

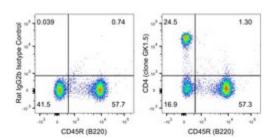
Description: The GK1.5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of GK1.5 is blocked by RM4-5.

Applications Reported: The GK1.5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The GK1.5 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. 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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

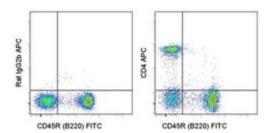
Advanced Verification Data



CD4 Antibody (17-0041-82)

Staining of mouse splenocytes. As expected based on known relative expression patterns, CD4 clone GK1.5 stains about 25% of total lymphocytes and does not stain CD45R (B220)+ B cells. Details: Balb/c splenocytes were surface stained with CD45R (B220, clone RA3-6B2) and Rat IgG2b Isotype Control or CD4 (clone GK1. 5). Cells in the lymphocyte gate were used for analysis. Relative expression validation info.

Product Images For CD4 Monoclonal Antibody (GK1.5), APC, eBioscience™



CD4 Antibody (17-0041-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.06 μ g of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.06 μ g of Anti-Mouse CD4 APC (right). Total viable cells were used for analysis.

□ 165 References

Immunohistochemistry (1)

Scientific reports

Heavy Chain-Hyaluronan/Pentraxin 3 from Amniotic Membrane Suppresses Inflammation and Scarring in Murine Lacrimal Gland and Conjunctiva of Chronic Graft-versus-Host Disease.

"17-0041 was used in Immunohistochemistry to help prove the concept that subcutaneous and subconjunctival injection of HC-HA/PTX3 is a novel approach to prevent dry eye disease caused by cGVHD."

Authors: Ogawa Y,He H,Mukai S,Imada T,Nakamura S,Su CW,Mahabole M,Tseng SC,Tsubota K

Species Mouse

Dilution

Not Cited
Year

2017

Flow Cytometry (159)

Translational neurodegeneration

Blocking meningeal lymphatic drainage aggravates Parkinson's diseaselike pathology in mice overexpressing mutated -synuclein.

"17-0041 was used in Flow cytometry/Cell sorting to suggest that brain lymphatic clearance dysfunction may be an aggravating factor in PD pathology."

Authors: Zou W,Pu T,Feng W,Lu M,Zheng Y,Du R,Xiao M,Hu G

Species Mouse

Dilution

1:400

Year 2022

Frontiers in genetics

Next Generation Sequencing for Long Non-coding RNAs Profile for CD4⁺ T Cells in the Mouse Model of Acute Asthma.

"17-0041-82 was used in Flow Cytometry to explore the IncRNAs profile in the CD4+T cells from the mouse model of acute asthma."

Authors: Wang Z,Ji N,Chen Z,Wu C,Sun Z,Yu W,Hu F,Huang M,Zhang M

Species Mouse

Dilution Not Cited

Year 2022

View more Flow references on thermofisher.com

Functional Assay (2)

Investigative ophthalmology & visual science

Suppression of alkali burn-induced corneal neovascularization by dendritic cell vaccination targeting VEGF receptor 2.

Authors: Mochimaru H,Usui T,Yaguchi T,Nagahama Y,Hasegawa G,Usui Y,Shimmura S,Tsubota K,Amano S, Kawakami Y,Ishida S

SpeciesNot Applicable

Dilution Not Cited

Year 2008

More applications with references on thermofisher.com

IV (2)

Misc (1)

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