



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

100 μg
Mouse
Hamster, Mouse, Human
Rat / IgG2b, kappa
Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Monoclonal
Antibody
GK1.5
APC
651/660 nm
Liquid
0.2 mg/mL
Affinity chromatography
PBS, pH 7.2
0.09% sodium azide
4° C, store in dark, DO NOT FREEZE!
AB_469320

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 μg/test	172 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.

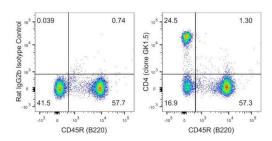
Applications Reported: The GK1.5 antibody has been reported for use in flow cytometric analysis.

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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.

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

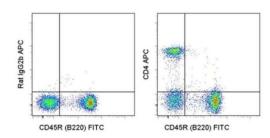
Filtration: 0.2 µm post-manufacturing filtered.

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



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. {RE}



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 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.06 µg of Anti-Mouse CD4 APC (right). Total viable cells were used for analysis.

□ 178 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.

Species Mouse

Year 2017

"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

Flow Cytometry (172)

Cell reports

Diverging regulation of Bach2 protein and RNA expression determine cell fate in early B cell response.

"17-0041-82 was used in Flow cytometry/Cell sorting to reveal that differential dynamics of Bach2 protein and transcripts in activated B cells control their cell-fate outcomes and imprint the fates of their descendant effector cells."

Authors: Hu Q,Xu T,Zhang M,Zhang H,Liu Y,Li HB,Chen C,Zheng J,Zhang Z,Li F,Shen N,Zhang W,Melnick A,Huang C

Year 2022

Species Mouse

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

Year 2022

Species Mouse

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

Year 2008

More applications with references on thermofisher.com

IV (2)

Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production obcumentation specifications and/or accompanying package inserts ("Documentation,"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is imited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not occurrent that any Product will conform to such model or sample include the product is used to apply the provided of the product is used to apply the product is used to a produce the product is used to a produce the product is used to a produce the product is used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or wity or in vite thereous the production to human or anticomposition human or anticomposition to human or anticomposition human or ant