Performance guarenteed

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

Product Details

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Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	GK1.5
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 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_465506

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 μg/test	280 Publications
Functional Assay (FN)	-	3 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

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.

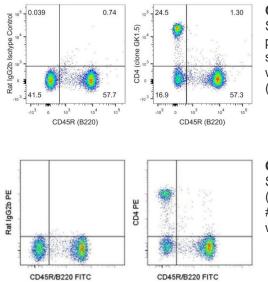
Applications Tested: The GK1.5 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number 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.

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Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD4 Antibody (12-0041-82)

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 (12-0041-82) 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 PE (Product # 12-4031-82) (left) or 0.06 µg of Anti-Mouse CD4 PE (right). Total viable cells were used for analysis.

View more figures on thermofisher.cn

294 References

Western Blot (1)

Molecular and cellular biology	Year 2002
Increased p300 expression inhibits glucocorticoid receptor-T-cell receptor antagonism but does not affect thymocyte positive selection.	
"12-0041 was used in Western Blotting to determine the effects of increased p300 expression on GR-TCR crosstalk between thymocytes."	Mouse
Authors: Yu CT,Feng MH,Shih HM,Lai MZ	

Immunohistochemistry (3)

Cancers Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.	Year 2021
"Published figure using CD4 monoclonal antibody (Product # 12-0041-82) in Flow Cytometry"	
Authors: Jeanne A,Sarazin T,Charlé M,Moali C,Fichel C,Boulagnon-Rombi C,Callewaert M,Andry MC,Diesis E,Delolme F,Rioult D,Dedieu S	
Nature communications	Year 2018

Differential cel	I-intrinsic regulations of germinal center B and T cells by	2010
miR-146a and	miR-146b.	Species
"12-0041 was used in I 146a and miR-146b."	mmunohistochemistry to reveal differential cell-intrinsic regulations of GC B and Tfh cells by miR-	Mouse Dilution
Authors: Cho S,Lee HN Rudensky AY,Crotty S,	1,Yu IS,Choi YS,Huang HY,Hashemifar SS,Lin LL,Chen MC,Afanasiev ND,Khan AA,Lin SW, Lu LF	1:100

View more IHC references on thermofisher.cn

Immunohistochemistry (Frozen) (2)

The American journal of pathology	Year
Innate IL-17A-producing leukocytes promote acute kidney injury via	2014
inflammasome and Toll-like receptor activation.	Species
"12-0041 was used in Immunohistochemistry on frozen tissues to investigate the pathogenic role of IL-17A in cisplatin- induced acute kidney injury."	Mouse
Authors: Chan AJ,Alikhan MA,Odobasic D,Gan PY,Khouri MB,Steinmetz OM,Mansell AS,Kitching AR,Holdsworth SR, Summers SA	

More applications with references on thermofisher.cn

ICC/IF (3) Flow (280) FN (3) Misc (2)

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