

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

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Rat, Fish, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	GK1.5
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_464892

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	16 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.25 μg/test	295 Publications
Functional Assay (FN)	-	2 Publications
Miscellaneous PubMed (Misc)	-	3 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.

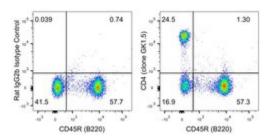
Applications Tested: This GK1.5 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.25 μ g per test A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number 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: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

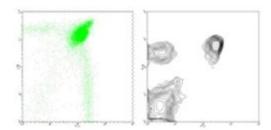
Advanced Verification Data



CD4 Antibody (11-0041-82)

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), FITC, eBioscience™



CD4 Antibody (11-0041-82) in Flow

Staining of mouse thymocytes with Anti-Mouse CD8a PE (Product # 12-0081-82) (left) or mouse splenocytes with Anti-Mouse CD3e PE (Product # 12-0031-82) (right) and Anti-Mouse CD4 FITC. Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 323 References

Immunohistochemistry (16)

International journal of molecular sciences

Positive Effects of Oral Antibiotic Administration in Murine Chronic Graft-Versus-Host Disease.

"Published figure using CD4 monoclonal antibody (Product # 11-0041-82) in Immunohistochemistry"

Authors: Sato S,Shimizu E,He J,Ogawa M,Asai K,Yazu H,Rusch R,Yamane M,Yang F,Fukuda S,Kawakami Y,Tsubota K,Oqawa Y

Species Not Applicable

Not Applicable

Not Cited

Year
2021

Dilution

Frontiers in physiology

Shifts in the Gut Microbiota Composition Due to Depleted Bone Marrow Beta Adrenergic Signaling Are Associated with Suppressed Inflammatory Transcriptional Networks in the Mouse Colon.

"Published figure using CD4 monoclonal antibody (Product # 11-0041-82) in Immunofluorescence"

Authors: Yang T,Ahmari N,Schmidt JT,Redler T,Arocha R,Pacholec K,Magee KL,Malphurs W,Owen JL,Krane GA,Li E, Wang GP,Vickroy TW,Raizada MK,Martyniuk CJ,Zubcevic J

Species Not Applicable

DilutionNot Cited

Year 2020

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (1)

World journal of gastroenterology

Impact of hyperglycemia on autoimmune pancreatitis and regulatory T-cells.

"Published figure using CD4 monoclonal antibody (Product # 11-0041-82) in Flow Cytometry" Authors: Müller-Graff FT,Fitzner B,Jaster R,Vollmar B,Zechner D

Species Mouse

Not Applicable

Dilution 1:1,200 Not Cited

Year 2018

Immunohistochemistry (Frozen) (1)

The American journal of pathology

Lack of the growth factor midkine enhances survival against cisplatininduced renal damage.

"11-0041 was used in Immunohistochemistry on frozen tissues to investigate the significance of the secondary effects of cisplatin on proximal tubule survival."

Authors: Kawai H,Sato W,Yuzawa Y,Kosugi T,Matsuo S,Takei Y,Kadomatsu K,Muramatsu T

Species Mouse

Dilution Not Cited

Year 2004

More applications with references on thermofisher.com

ICC/IF (5) Flow (295) FN (2) Misc (3)

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