



Biotin anti-mouse CD4 Antibody

Catalog# / Size 116010 / 500 μg

Clone RM4-4
Regulatory Status RUO

Other Names L3T4, T4

Isotype Rat IgG2b, κ

Description CD4 is a 55 kD protein, also known as L3T4 or T4. It is a member of the lg superfamily,

primarily expressed on most thymocytes and a subset of T cells, and weakly on macrophages and dendritic cells. It acts as a coreceptor with the TCR during T cell activation and thymic differentiation by binding MHC class II and associating with the protein tyrosin kinase, lck.

Product Details

Verified Reactivity Mouse

Antibody Type Monoclonal

Host Species Rat

Immunogen BALB/c mouse thymocytes

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Preparation The antibody was purified by affinity chromatography and conjugated with biotin under optimal

conditions.

Concentration 0.5 mg/ml

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.

Application FC - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application Notes RM4-4 antibody does not block the binding of GK1.5 and RM4-5 antibodies to CD4 T cells. For

immunohistochemistry applications, the RM4-5 (Cat. No. 100506) and GK1.5 (Cat. No. 100402)

antibodies are recommended.

Application References

1. Bendelac A. 1995. Curr. Opin. Immunol. 7:367.

(PubMed link indicates BioLegend citation)

2. Norian LA and Allen PM. 2004. J. Immunol. 173:835.

Product Citations

1. Kawakami R, et al. 2021. Immunity. 54(5):947-961.e8. PubMed

2. Hirota K et al. 2018. Immunity. 48(6):1220-1232 . PubMed

3. Jaeger N, et al. 2020. Cell Rep. 33:108331. PubMed

RRID AB_2561504 (BioLegend Cat. No. 116010)

Antigen Details

Structure Ig superfamily, 55 kD

Distribution Majority of thymocytes, T cell subset

Function TCR co-receptor, T cell activation

Ligand/Receptor MHC class II molecule

Cell Type T cells, Thymocytes, Tregs

Biology Area Immunology

Molecular Family CD Molecules

Antigen References 1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.

Bierer BE, et al. 1989. Annu. Rev. İmmunol. 7:579.
 Janeway CA. 1992. Annu. Rev. Immunol. 10:645.

Gene ID <u>12504</u>

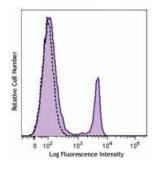
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

FITC anti-mouse CD4, PE anti-mouse CD4, Pacific Blue™ anti-mouse CD4, Biotin anti-mouse CD4, PerCP/Cyanine5.5 anti-mouse CD4, APC anti-mouse CD4, PE/Cyanine7 anti-mouse CD4, Purified anti-mouse CD4, APC/Fire™ 750 anti-mouse CD4, Alexa Fluor® 700 anti-mouse CD4, Brilliant Violet 510™ anti-mouse CD4, Brilliant Violet 421™ anti-mouse CD4, Brilliant Violet 605™ anti-mouse CD4

Product Data



C57BL/6 mouse splenocytes were stained with biotinylated CD4 (clone RM4-4) (solid line) or biotinylated rat lgG2b, κ isotype control (dotted line), followed by Sav-FITC.

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