



DATA SHEET

Brilliant Violet 785™ anti-mouse CD4 Antibody

Catalog# / Size 100453 / 50 µg

Clone GK1.5

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 Ig superfamily, primarily expressed on most thymocytes, 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

Reactivity Mouse

Antibody Type Monoclonal

Host Species Rat

Immunogen Mouse CTL clone V4

Formulation Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Preparation The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions.

Concentration 0.2 mg/ml

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **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.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.

Excitation Laser Violet Laser (405 nm)

RRID AB_2565843

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

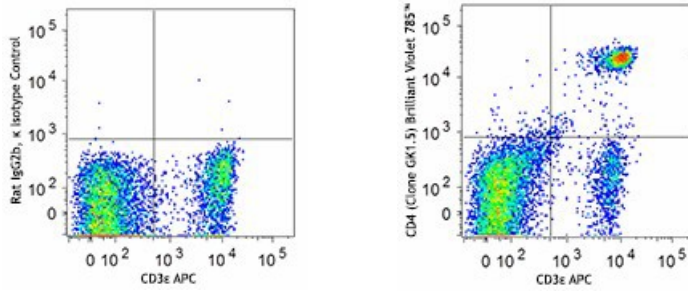
Cell Type Dendritic cells, T cells, Thymocytes, Tregs

Biology Area Immunology

Molecular Family CD Molecules

Gene ID [12504](#)

Product Data



C57BL/6 mouse splenocytes were stained with CD3ε APC and CD4 (clone GK1.5) Brilliant Violet 785™ (top) or rat IgG2b, κ Brilliant Violet 785™ isotype control (bottom).

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