Mouse CD4 APC-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # GK1.5

Catalog Number: FAB554A

100 TESTS, 25 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Reacts with mouse CD4, an antigen co-receptor on the T cell surface which interacts with MHC II molecules on antigen presenting cells.
Source	Monoclonal Rat IgG_{2B} Clone # GK1.5
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse CTL clone V4
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

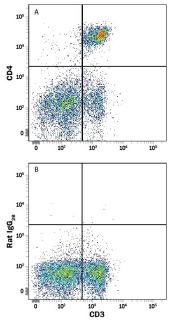
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD4 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse CD3 PE-conjugated Monoclonal Antibody (Catalog # FAB4841P) and either (A) Rat Anti-Mouse CD4 APC-conjugated Monoclonal Antibody (Catalog # FAB554A) or (B) Rat IgG_{2B} Allophycocyanin Isotype Control (Catalog # IC013A). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD4 is a type I membrane glycoprotein belonging to the immunoglobulin superfamily. It is expressed predominantly on thymocytes and a subset of mature T lymphocytes. CD4 functions in collaboration with the T cell receptor in the recognition of peptide antigens that are presented by class II major histocompatibility complexes. CD4 also has been shown to be a coreceptor of HIV entry and specifically binds gp120, the external envelope glycoprotein of HIV.

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