

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 11830
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Recombinant Human CD4. Extracellular Domain Accession # P01730
Conjugate	PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 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.

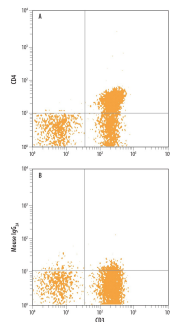
APPLICATIONS

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 Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD3ε PE-conjugated Monoclonal Antibody (Catalog # [FAB100P](#)) and either (A) Mouse Anti-Human CD4 PerCP-conjugated Monoclonal Antibody (Catalog # [FAB3791C](#)) or (B) Mouse IgG_{2A} PerCP Isotype Control (Catalog # [IC003C](#)). 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.