

Human CD4 Antibody

Monoclonal Mouse IgG₁ Clone # RPA-T4
Catalog Number: MAB37912

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CD4 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # RPA-T4
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	PHA-stimulated human PBMC Accession # P01730
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

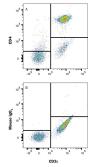
APPLICATIONS

Places Note: Ontimal 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	0.25 μg/10 ⁶ cells	Human PBMC lymphocytes
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of CD4 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with (A) Mouse Anti-Human CD4 Monoclonal Antibody (Catalog # MAB37912) or (B) Mouse IgG1 Isotype Control (Catalog # MAB002), followed by PE-conjugated anti-Mouse IgG secondary antibody (Catalog # F0102B) and Mouse Anti-Human CD3 epsilon APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Staining was performed using our Staining Membrane-associated Proteins protocol

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

Rev. 10/22/2020 Page 1 of 1

