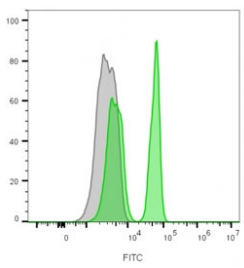
CD4 Antibody for FACS / T Helper Cell Flow Cytometry Antibody [clone C4/206] (V2381)

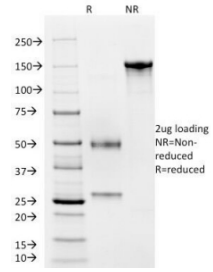
Catalog No.	Formulation	Size
V2381-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2381-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2381SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	C4/206
Purity	Protein G affinity chromatography
UniProt	P01730
Localization	Cell surface
Applications	ELISA (order BSA/sodium azide-free format for coating) Flow cytometry: 1-2ug/million cells
Limitations	The CD4 antibody is available for research use only.



CD4 Antibody for FACS. Flow cytometry analysis of CD4 antibody staining in human peripheral blood mononuclear cells (PBMCs) demonstrating detection of CD4 molecule on T helper lymphocytes using a mouse monoclonal antibody directed against CD4. Lymphocyte-gated cells show a distinct CD4-positive population (green) compared to the unstained control (gray), enabling clear discrimination of CD4-positive T helper cells for flow cytometry-based immune subset identification and phenotyping.



SDS-PAGE Analysis of Purified, BSA-Free CD4 Antibody for FACS / T Helper Cell Flow Cytometry Antibody (clone C4/206). Confirmation of Integrity and Purity of the Antibody.

Description

CD4 molecule (CD4) is a cell surface glycoprotein expressed primarily on T helper lymphocytes, with additional expression on monocytes, macrophages, and dendritic cells, where it functions as a co-receptor for antigen recognition through interaction with major histocompatibility complex class II molecules. CD4 Antibody for FACS is specifically optimized for flow cytometry applications that require accurate identification and quantification of CD4-positive T helper cells, making it a core reagent in immunological studies focused on adaptive immune responses.

CD4 antibody, also known as T helper cell marker antibody or CD4 surface receptor antibody, is one of the most widely used markers in flow cytometry for defining helper T cell populations. CD4 Antibody for FACS enables clear discrimination of CD4-positive lymphocytes from CD4-negative populations, allowing precise gating strategies that are critical for downstream immune analysis. In flow cytometry panels, CD4 serves as a defining lineage marker that separates helper T cells from cytotoxic CD8-positive T cells, enabling detailed assessment of immune system composition.

This CD4 Antibody for FACS (clone C4/206) is particularly positioned for T helper cell-focused flow cytometry analysis, where accurate and reproducible identification of CD4-positive populations is essential. Flow cytometry using CD4 antibodies allows researchers to monitor changes in T helper cell frequency, evaluate immune activation states, and study functional immune responses in conditions such as infection, inflammation, and immune dysregulation. The ability of CD4 Antibody for FACS to generate strong and specific surface staining supports high-confidence identification of helper T cell populations in complex samples.

CD4 is localized to the plasma membrane and plays a central role in T cell receptor signaling through its association with intracellular kinases such as Lck, amplifying antigen-specific activation signals. Its high and stable expression on helper T cells makes CD4 an ideal marker for flow cytometry-based immune analysis. In FACS assays, CD4 Antibody for FACS provides robust membrane staining that facilitates accurate population gating, enabling reproducible identification of CD4-positive cells across experimental conditions.

A mouse monoclonal CD4 antibody such as clone C4/206 can be used in flow cytometry to support detailed T helper cell analysis. This antibody targets CD4 in research applications, enabling detection, quantification, and characterization of CD4-positive immune cells in flow cytometry-based studies.

A full range of CD4 antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD4 Antibody collection page.

Application Notes

Optimal dilution of the CD4 Antibody for FACS / T Helper Cell Flow Cytometry Antibody for a specific application should be determined by researcher.

Immunogen

Recombinant human CD4 protein was used as immunogen for the CD4 Antibody for FACS / T Helper Cell Flow Cytometry Antibody.

Storage

CD4 antibody with azide can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

Alternate Names

CD4 flow cytometry antibody, CD4 T helper cell antibody, CD4 FACS antibody, CD4 surface marker antibody

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