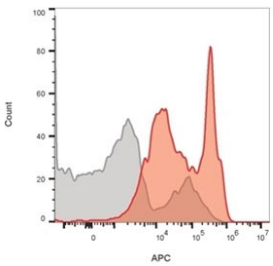
CD4 Antibody for FACS / T Cell Subset Analysis Antibody [clone RIV7] (V8208)

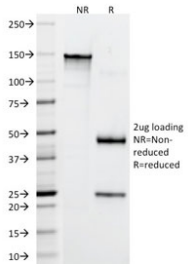
Catalog No.	Formulation	Size
V8208-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8208-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8208SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	RIV7
Purity	Protein G affinity chromatography
UniProt	P06332
Localization	Cell surface
Applications	Functional Studies (order BSA/azide-free format) Flow cytometry: 1-2ug/10^6 cells in 0.1ml Immunofluorescence: 1-2ug/ml
Limitations	This CD4 antibody is available for research use only.



Flow cytometry staining of lymphocyte gated human PBM cells with CD4 Antibody for FACS / T Cell Subset Analysis Antibody; Gray=isotype control, Red= CD4 antibody.



SDS-PAGE analysis of purified, BSA-free CD4 Antibody for FACS / T Cell Subset Analysis Antibody (clone RIV7) as confirmation of integrity and purity.

Description

CD4 molecule (CD4) is a transmembrane glycoprotein expressed on the surface of T helper cells and additional immune cell populations, where it functions as a co-receptor in antigen recognition and immune signaling. CD4 Antibody for FACS is widely used in flow cytometry to define and separate T cell subsets, enabling precise discrimination between CD4-positive helper T cells and other lymphocyte populations, particularly CD8-positive cytotoxic T cells.

CD4 antibody, also referred to as T helper lymphocyte antibody or CD4 surface marker antibody, is a foundational reagent for T cell subset analysis in flow cytometry. CD4 Antibody for FACS enables high-resolution immunophenotyping by allowing researchers to distinguish between major T cell lineages and quantify their relative abundance. In multiparametric flow cytometry panels, CD4 is frequently used in combination with additional markers to further subdivide T cell populations into functionally distinct subsets, supporting advanced immune profiling strategies.

This CD4 Antibody for FACS (clone RIV7) is particularly suited for studies focused on T cell subset composition and immune population dynamics. Flow cytometry using CD4 antibodies allows detailed evaluation of immune system balance by quantifying CD4-positive versus CD8-positive cells and assessing shifts in these populations under different biological conditions. CD4 Antibody for FACS supports precise gating strategies that are essential for subset discrimination, enabling researchers to generate reproducible and biologically meaningful data.

CD4 is localized to the plasma membrane and enhances T cell receptor signaling through its interaction with intracellular signaling molecules. Its expression defines a major functional class of T lymphocytes responsible for coordinating immune responses. In flow cytometry applications, CD4 Antibody for FACS produces strong surface staining that facilitates accurate identification of CD4-positive cells within heterogeneous leukocyte populations.

A mouse monoclonal CD4 antibody such as clone RIV7 can be used in flow cytometry to support T cell subset analysis and immune profiling studies. This antibody targets CD4 in research applications, enabling reliable identification and quantification of helper T cell populations.

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 Cell Subset Analysis Antibody should be determined by the researcher.

Immunogen

Human peripheral lymphocytes were used as the immunogen for the CD4 Antibody for FACS / T Cell Subset Analysis Antibody.

Storage

Store the CD4 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD4 subset analysis antibody, CD4 T cell subset antibody, CD4 flow cytometry antibody, CD4 immune subset antibody

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