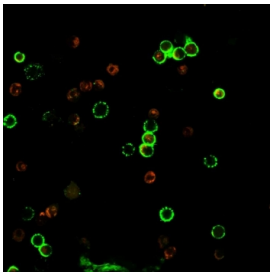
CD4 Antibody for IF / CD4 Immunofluorescence Antibody [clone rC4/206] (V8517)

Catalog No.	Formulation	Size
V8517-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8517-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8517SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

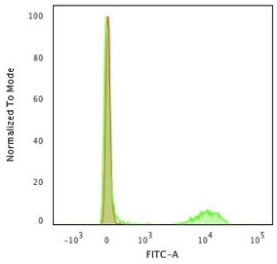
Recombinant MOUSE MONOCLONAL

Bulk quote request

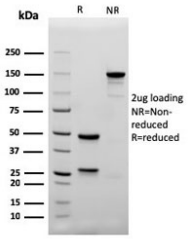
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rC4/206
Purity	Protein G affinity chromatography
UniProt	P01730
Localization	Cell surface
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This recombinant CD4 antibody is available for research use only.



CD4 Antibody for IF. Immunofluorescence analysis of CD4 antibody staining in human peripheral blood mononuclear cells (PBMCs). CD4 Immunofluorescence Antibody labeling (green, clone rC4/206) highlights membranous localization on CD4-positive T helper lymphocytes, forming distinct ring-like fluorescence patterns outlining the cell surface, while DAPI (blue) marks nuclei, supporting high-resolution visualization of immune cell distribution and cell surface marker expression in fluorescence microscopy.



Flow cytometry testing of human PBMC with recombinant CD4 antibody (clone C40/2383); Red=isotype control, Green= recombinant CD4 antibody.



SDS-PAGE analysis of purified, BSA-free recombinant CD4 antibody (clone rC4/206) as confirmation of integrity and purity.

Description

CD4 molecule (CD4) is a cell surface glycoprotein expressed primarily on T helper lymphocytes, with additional expression on subsets of 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 IF is specifically used in immunofluorescence to visualize CD4-positive immune cells, enabling direct observation of protein localization at the plasma membrane within fixed cells and tissue sections.

CD4 antibody, also known as T helper cell marker antibody or CD4 surface receptor antibody, is a key reagent for immunofluorescence-based detection of immune cell populations. CD4 Antibody for IF produces a characteristic membrane-associated fluorescence signal that outlines the surface of CD4-expressing cells, allowing precise identification of T helper lymphocytes in fluorescence microscopy. This distinct staining pattern enables clear visualization of cell boundaries and supports analysis of immune cell morphology and spatial distribution.

This CD4 Antibody for IF (clone rC4/206) is well suited for high-resolution imaging applications where accurate localization of cell surface proteins is essential. Immunofluorescence using CD4 antibodies allows researchers to distinguish CD4-positive cells within mixed populations and to examine their spatial relationships with neighboring cells. CD4 Antibody for IF supports detailed visualization of immune cell clustering, cell-to-cell interactions, and microenvironmental organization in both cultured cells and tissue-based imaging studies.

CD4 Antibody for IF is frequently incorporated into multiplex immunofluorescence panels, where multiple targets are visualized simultaneously using spectrally distinct fluorophores. This enables co-localization analysis with additional immune markers, such as lineage-specific proteins, activation markers, or intracellular signaling components. The ability to combine CD4 Antibody for IF with other primary antibodies in multi-color experiments supports comprehensive analysis of immune cell identity and function within complex biological systems.

CD4 is localized to the plasma membrane, and in immunofluorescence, CD4 Antibody for IF generates a distinct membranous fluorescence pattern that highlights the surface of CD4-positive cells with high clarity. This surface-localized signal allows researchers to differentiate CD4-expressing lymphocytes from surrounding cell types and to assess changes in cell distribution under different experimental conditions. A recombinant mouse monoclonal CD4 antibody such as clone rC4/206 can be used in immunofluorescence to support detection of CD4-positive immune cells, enabling detailed analysis of cell surface localization, immune cell interactions, and spatial organization in fluorescence imaging 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 IF / CD4 Immunofluorescence Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human CD4 protein was used as the immunogen for the CD4 Antibody for IF / CD4 Immunofluorescence Antibody.

Storage

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

Alternate Names

CD4 IF antibody, CD4 immunofluorescence antibody, CD4 fluorescence staining antibody, CD4 cell surface marker IF antibody