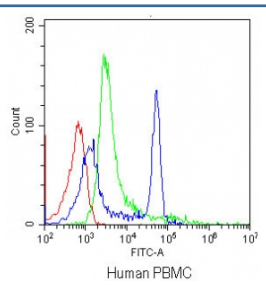
CD4 Antibody for FACS / Leukocyte Surface Marker Antibody [clone CA-4] (R30015)

Catalog No.	Formulation	Size
R30015	0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	CA-4
Purity	Ascites
Gene ID	920
Applications	IHC (Frozen) : 1ug/ml-formalin or acetone fixed tissues Flow Cytometry : 1-3ug/million cells
Limitations	This 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 as a leukocyte surface marker using a mouse monoclonal antibody. Lymphocyte-gated cells show a distinct CD4-positive population (blue) compared to cells alone (red) and isotype control (green), supporting reliable identification of CD4-expressing leukocytes for flow cytometry-based immune cell detection and surface marker analysis.

Description

CD4 molecule (CD4) is a membrane-bound glycoprotein expressed on the surface of multiple leukocyte populations, including T helper lymphocytes, monocytes, macrophages, and dendritic cells, where it contributes to immune recognition and signaling processes. CD4 Antibody for FACS is widely used in flow cytometry to detect CD4 as a leukocyte surface marker, enabling identification and analysis of CD4-expressing immune cells in heterogeneous samples.

CD4 antibody, also referred to as CD4 leukocyte antigen antibody or CD4 surface marker antibody, is commonly applied in flow cytometry to characterize immune cell populations based on surface antigen expression. CD4 Antibody for FACS allows researchers to identify CD4-positive leukocytes and distinguish them from other immune cells, supporting studies of immune cell distribution and composition. Its use as a surface marker makes it particularly valuable for gating strategies in flow cytometry workflows.

This CD4 Antibody for FACS (clone CA-4) is positioned for applications emphasizing CD4 as a broad leukocyte surface marker rather than a single functional subset. Flow cytometry using CD4 antibodies enables analysis of CD4 expression across different immune cell types, providing insight into overall immune composition and population structure. CD4 Antibody for FACS supports reliable identification of CD4-positive cells in complex biological samples, facilitating immune monitoring and characterization.

CD4 is localized to the plasma membrane and plays a role in immune signaling and antigen recognition. Its expression on multiple leukocyte types makes it a versatile marker for flow cytometry-based studies. In FACS assays, CD4 Antibody for FACS produces strong surface staining that enables consistent identification of CD4-positive immune cells across different experimental conditions.

A mouse monoclonal CD4 antibody such as clone CA-4 can be used in flow cytometry to support detection of CD4-expressing leukocytes. This antibody targets CD4 in research applications, enabling analysis of immune cell populations and surface marker expression in flow cytometry assays.

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

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD4 Antibody for FACS / Leukocyte Surface Marker Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

CD4-transfected mouse T-cell hybridoma (3DT) followed by CD4+ human T-cell CEM cells was used as the immunogen for this CD4 Antibody for FACS / Leukocyte Surface Marker Antibody.

Storage

After reconstitution, the CD4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

CD4 leukocyte marker antibody, CD4 surface antigen antibody, CD4 flow cytometry antibody, CD4 immune marker antibody