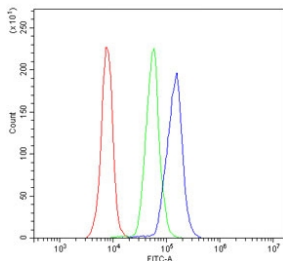


CD4 Antibody for FACS / Rodent T Cell Profiling Antibody (RQ5873)

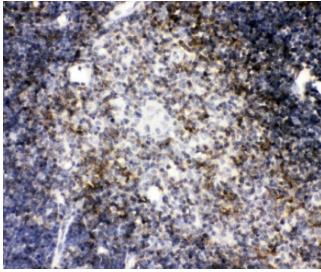
Catalog No.	Formulation	Size
RQ5873	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

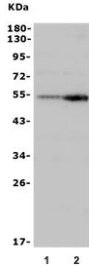
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P05540
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CD4 antibody is available for research use only.



CD4 Antibody for FACS. Flow cytometry analysis of CD4 antibody staining in mouse peripheral blood mononuclear cells (PBMCs) demonstrating detection of CD4 molecule on T helper lymphocytes using a rabbit polyclonal antibody. Lymphocyte-gated cells show a clear CD4-positive population (blue) compared to cells alone (red) and isotype control (green), supporting accurate identification of CD4-expressing T cells for flow cytometry-based rodent T cell profiling and preclinical immune analysis.



IHC staining of FFPE mouse thymus with CD4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of mouse 1) RAW264.7 and 2) ANA-1 lysate with CD4 antibody. Expected molecular weight: 31-55 kDa depending on glycosylation level.

Description

CD4 molecule (CD4) is a cell surface glycoprotein expressed predominantly 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 widely used in flow cytometry to identify CD4-positive immune cells, and is particularly valuable in rodent-based experimental systems where characterization of T cell populations is central to immunological research.

CD4 antibody, also referred to as T helper cell marker antibody or CD4 surface receptor antibody, is a fundamental reagent for flow cytometry analysis of immune cell populations. CD4 Antibody for FACS enables clear discrimination of CD4-positive lymphocytes from CD4-negative cells, supporting precise gating strategies and reproducible identification of helper T cell populations. In rodent immune studies, CD4 detection is essential for evaluating immune system composition, monitoring T cell responses, and investigating mechanisms of immune regulation in controlled model systems.

This CD4 Antibody for FACS is specifically positioned for rodent T cell profiling, where analysis of CD4-positive populations in mouse and rat samples is a routine component of preclinical research. Flow cytometry using CD4 antibodies allows researchers to quantify T helper cell populations, assess immune activation, and track dynamic changes in immune cell distribution during disease progression or therapeutic intervention. CD4 Antibody for FACS supports consistent detection of CD4-expressing cells, enabling reliable comparison of immune responses across experimental conditions.

CD4 is localized to the plasma membrane and plays a central role in T cell receptor signaling through its interaction with intracellular kinases such as Lck, amplifying antigen-specific activation pathways. Its expression defines a major functional subset of T lymphocytes responsible for coordinating adaptive immune responses. In flow cytometry assays, CD4 Antibody for FACS provides strong and specific surface staining, allowing accurate identification of CD4-positive T cells within heterogeneous leukocyte populations and supporting high-quality data generation in rodent immune profiling studies.

A rabbit polyclonal CD4 antibody can be used in flow cytometry to support detection of CD4-expressing T cells in experimental model systems. This antibody targets CD4 in research applications, enabling detailed characterization of immune cell populations and facilitating studies of T cell biology, immune regulation, and disease models in rodent systems.

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 / Rodent T Cell Profiling Antibody should be determined by the researcher.

Immunogen

Recombinant rat protein (amino acids K28-I457) was used as the immunogen for the CD4 Antibody for FACS / Rodent T Cell Profiling 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 rodent FACS antibody, CD4 mouse rat antibody, CD4 T cell profiling antibody, CD4 flow cytometry antibody