

APC Conjugated Anti-Mouse CD4 Recombinant Antibody [PSH04-99] - Rabbit IgG (Chimeric)

HA720204F



Product Type:	Recombinant Chimeric Antibody IgG, primary antibodies
Species reactivity:	Mouse
Applications:	FC
Molecular Wt:	Predicted band size: 51 kDa
Clone number:	PSH04-99

Description: In molecular biology, CD4 (cluster of differentiation 4) is a glycoprotein that serves as a co-receptor for the T-cell receptor (TCR). CD4 is found on the surface of immune cells such as helper T cells, monocytes, macrophages, and dendritic cells. It was discovered in the late 1970s and was originally known as leu-3 and T4 (after the OKT4 monoclonal antibody that reacted with it) before being named CD4 in 1984. In humans, the CD4 protein is encoded by the CD4 gene. CD4+ T helper cells are white blood cells that are an essential part of the human immune system. They are often referred to as CD4 cells, T-helper cells or T4 cells. They are called helper cells because one of their main roles is to send signals to other types of immune cells, including CD8 killer cells, which then destroy the infectious particle. If CD4 cells become depleted, for example in untreated HIV infection, or following immune suppression prior to a transplant, the body is left vulnerable to a wide range of infections that it would otherwise have been able to fight.

Conjugate:	APC
Immunogen:	Recombinant protein.
Positive control:	BABL/C mouse splenocytes.
Subcellular location:	Cell membrane.
Database links:	SwissProt: P06332 Mouse
Recommended Dilutions:	
FC	5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Storage Buffer:	Supplied in phosphate-buffered solution, pH 7.2, containing 0.2% ProClean 950 and BSA.
Storage Instruction:	Store at 2°C to 8°C. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

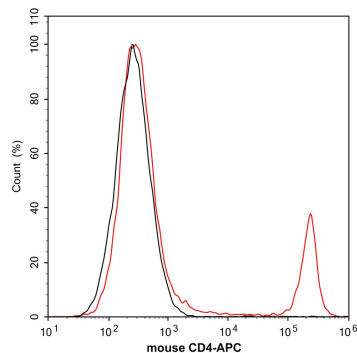


Fig1: Flow cytometric analysis of BABL/C mouse splenocytes labeling Mouse CD4.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA720204F, 1 μ g/mL) (red). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Oh DY et al. Cytotoxic CD4(+) T cells in cancer: Expanding the immune effector toolbox. *Immunity*. 2021 Dec
2. Morgan DM et al. Revealing the heterogeneity of CD4(+) T cells through single-cell transcriptomics. *J Allergy Clin Immunol*. 2022 Oct

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