

Biotin Rabbit anti-Human/Monkey CD4 mAb

Catalog No.: A28158

Basic Information

Observed MW

Calculated MW

51 kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human, Cynomolgus

CloneNo number

ARC5142-01

Conjugate

Biotin

Recommended Dilutions

FC ≤0.25 µg per million cells
in 100 µl volume

Background

This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

Immunogen Information

Gene ID

Hu 920 Cyon 101864991

Swiss Prot

P01730

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

T4; IMD79; Leu-3; OKT4D; CD4mut

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

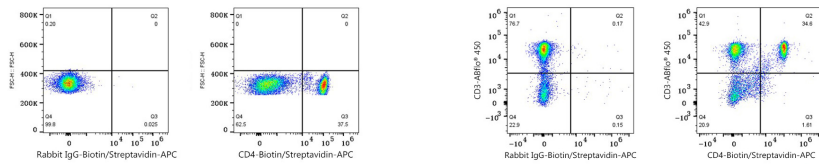
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 Human PBMC were surface-stained with Biotin Rabbit IgG isotype control (A25626,5 μ l/Test,left) or Biotin Rabbit anti-Human/Monkey CD4 mAb (A28158,0.25 μ g,right), followed by APC Streptavidin staining. Cells in the lymphocyte gate were used for analysis.

Flow cytometry: 1×10^6 Cynomolgus PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177,5 μ l/Test) and Biotin Rabbit IgG isotype control (A25626,5 μ l/Test,left) or Biotin Rabbit anti-Human/Monkey CD4 mAb (A28158,0.25 μ g,right), followed by APC Streptavidin staining. Cells in the lymphocyte gate were used for analysis.