

# CD4 Rabbit mAb

Catalog No.: A19018

Recombinant

7 Publications

## Basic Information

**Observed MW**

55kDa

**Calculated MW**

51kDa

**Category**

Primary antibody

**Applications**

WB, IHC-P, FC, ELISA

**Cross-Reactivity**

Human

**CloneNo number**

ARC0328

## 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.

## Recommended Dilutions

**WB** 1:1000 - 1:2000**IHC-P** 1:200 - 1:800**FC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

920

**Swiss Prot**

P01730

**Immunogen**

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

**Synonyms**

T4; IMD79; Leu-3; OKT4D; CD4mut; CD4

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

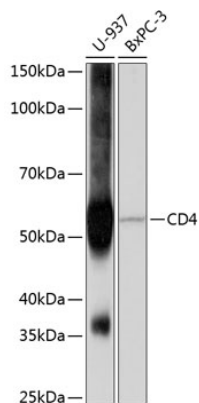
Affinity purification

**Storage**

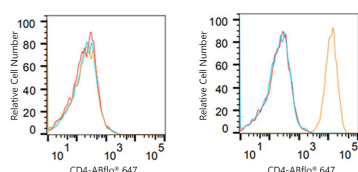
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

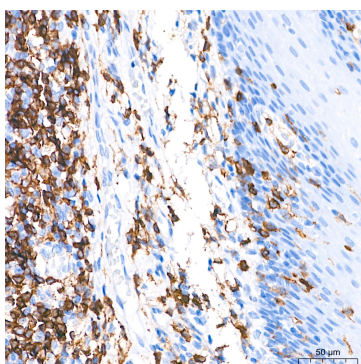
## Validation Data



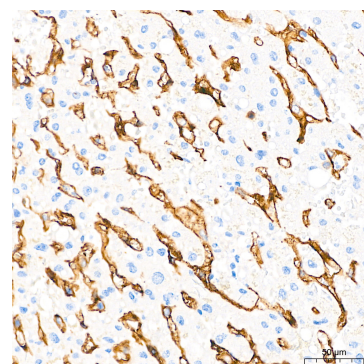
Western blot analysis of various lysates using CD4 Rabbit mAb (A19018) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3min.



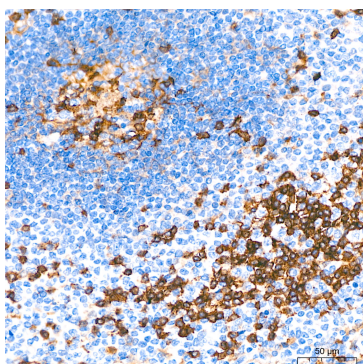
Flow cytometry:  $1 \times 10^6$  K-562 cells (negative control, left) and THP-1 cells (right) were surface-stained with CD4 Rabbit mAb (A19018, 10 µg/mL, orange line) or Rabbit IgG isotype control (AC042, 10 µg/mL, blue line), followed by Alexa Fluor 647 conjugated goat anti-rabbit pAb (1:500 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).



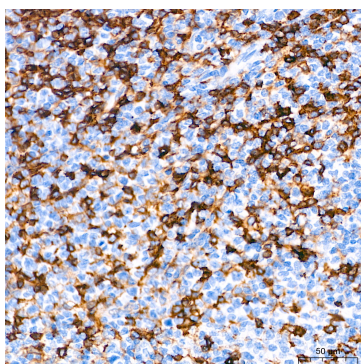
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using CD4 Rabbit mAb (A19018) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using CD4 Rabbit mAb (A19018) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using CD4 Rabbit mAb (A19018) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD4 Rabbit mAb (A19018) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.