

## Basic Information

Product Name	Anti-CD4 Antibody	
Gene Name	CD4	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived rat CD4 recombinant protein (Position: K28-I457). Human CD4 shares 53.8% and 79.7% amino acid (aa) sequence identity with mouse and rat CD4, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	52 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

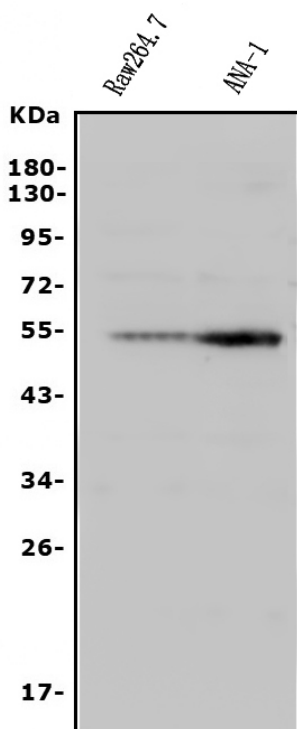
## Background Information

This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific 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.

## Reference

Anti-CD4 Antibody 被引用在8文献中。

## Selected Validation Data



Western blot analysis of CD4 using anti-CD4 antibody (A00344-2).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Mouse RAW264.7 whole cell lysates,

Lane 2: Mouse ANA-1 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-CD4 antigen

affinity purified polyclonal antibody (A00344-2) at a dilution of

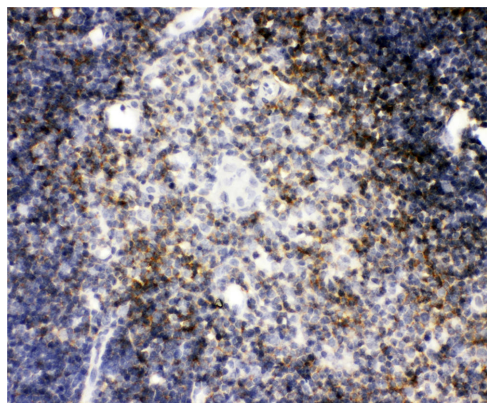
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL

Plus Western Blotting Substrate (Catalog # AR1197). A specific

band was detected for CD4 at approximately 52 kDa. The expected

band size for CD4 is at 51 kDa.



IHC analysis of CD4 using anti-CD4 antibody (A00344-2).

CD4 was detected in a paraffin-embedded section of mouse thymus

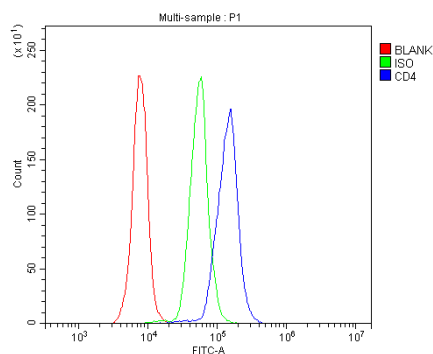
tissue. Biotinylated goat anti-rabbit IgG was used as secondary

antibody. The tissue section was incubated with rabbit anti-CD4

Antibody (A00344-2) at a dilution of 1:200 and developed using

Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB

(Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of mouse PBMC cells using anti-CD4 antibody (A00344-2).

Overlay histogram showing mouse PBMC cells stained with A00344-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD4 Antibody (A00344-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.