

## Basic Information

Product Name	Anti-CD4 Antibody	
Gene Name	CD4	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, FCM, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived rat CD4 recombinant protein (Position: K28-I457).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	52KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC):1:50-400 Flow cytometry (FCM): 1-3 $\mu$ g/1x10 <sup>6</sup> cells (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.

## Selected Validation Data

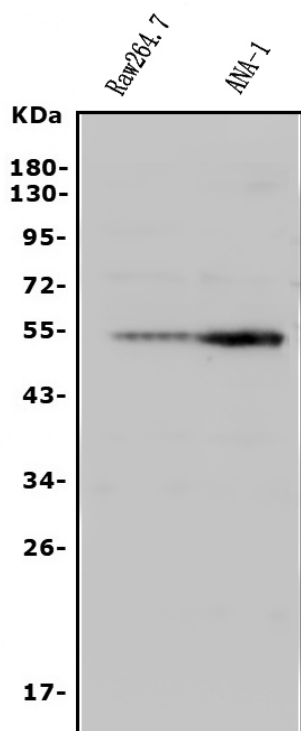


Figure 1. Western blot analysis of anti- CD4 antibody (A00344-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Mouse RAW264.7 whole cell lysates, Lane 2: Mouse ANA-1 whole cell lysates. Use rabbit anti- CD4 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CD4 at approximately 52KD. The expected band size for CD4 is at 52KD.

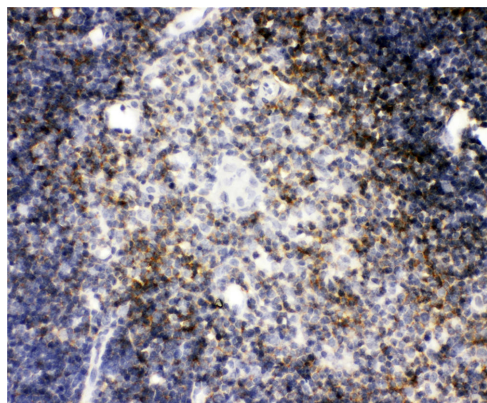


Figure 2. IHC analysis using anti- CD4 antibody (A00344-2). detected in paraffin-embedded section of mouse thymus tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

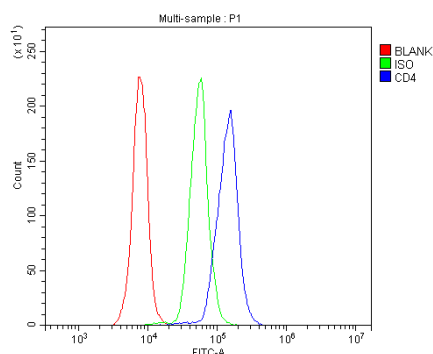


Figure 3. Flow cytometry analysis of mouse PBMC cell (1x10<sup>6</sup>) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

Product datasheet

## Anti-CD4 Antibody

Catalog Number: **A00344-2**



antibody and ELISA experts

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