

Anti-CD4 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 48 kDa. Actual: 55 kDa.
Purification:	Protein A purified

Applications

1. Image was kindly submitted by Dr.David M Burmeister from US Army Institute of Surgical Research. Pig lymphnodes stained with Rabbit Anti-CD4 Polyclonal Antibody and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

2. Blank control (blue line): HL60 (fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

Primary Antibody (green line): Rabbit Anti-CD4 antibody (TMAB-00362), Dilution: 1 µg / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, dilution: 1 µg / test.

3. Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CD4) Polyclonal Antibody, Unconjugated (TMAB-00362) at 1:4000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CD4) Polyclonal Antibody, Unconjugated (TMAB-00362) at 1:4000 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:

5. Sample:

Lane 1: U937 (Human) Cell Lysate at 30 µg

Lane 2: HL-60 (Human) Cell Lysate at 30 µg

Lane 3: Jurkat (Human) Cell Lysate at 30 µg

Primary: Anti-CD4 (TMAB-00362) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kDa

Observed band size: 55 kDa

6. Sample:

Spleen (Mouse) Lysate at 40 µg

Primary: Anti-CD4 (TMAB-00362) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kDa

Observed band size: 55 kDa

7. Sample:

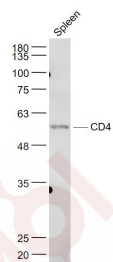
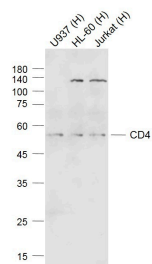
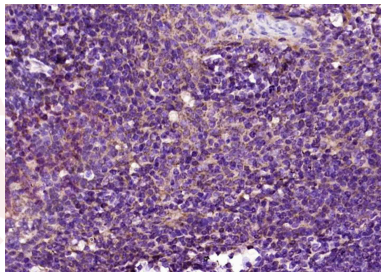
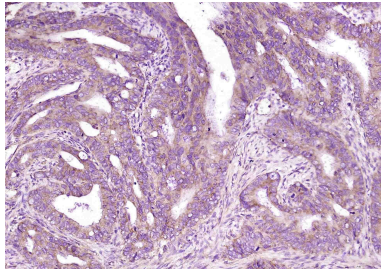
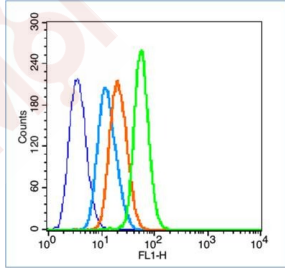
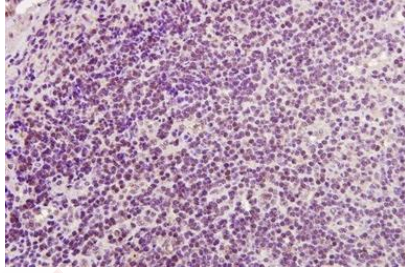
Lymphnode (Mouse) Lysate at 40 µg

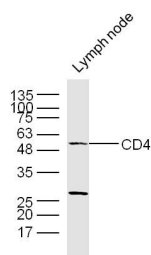
Primary: Anti-CD4 (TMAB-00362) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kDa

Observed band size: 55 kDa





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CD4

Antigen Species: Human

Gene ID: 920

Uniprot ID: P01730

Synonyms: CD4 molecule;Ly-4;L3T4

Biology Area: Regulatory T Cells,CD,HIV-related,T Lymphocytic Lineage,Dendritic Cell Lineage,Monocytic Lineage

Research Background

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. [provided by RefSeq, Aug 2010].

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