
CD4 Rabbit pAb

Catalog Number: bs-0647R

Target Protein: CD4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse, Pig (predicted:Rat, Sheep, Cow, Dog, GuineaPig, MACFA)

Predicted MW: 48 kDa

Entrez Gene: 920

Swiss Prot: P01730

Source: KLH conjugated synthetic peptide derived from human CD4: 385-457/457.

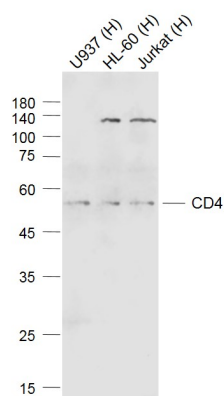
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

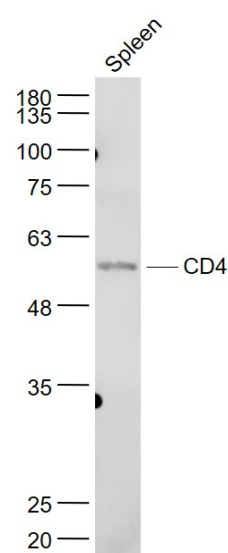
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

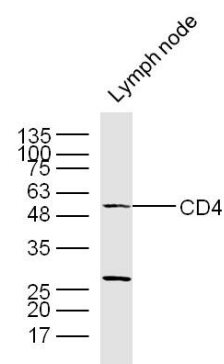
VALIDATION IMAGES



Sample: Lane 1: U937 (Human) Cell Lysate at 30 ug Lane 2: HL-60 (Human) Cell Lysate at 30 ug Lane 3: Jurkat (Human) Cell Lysate at 30 ug Primary: Anti-CD4 (bs-0647R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 55 kD



Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti- CD4 (bs-0647R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 55 kD



Sample: Lymph node(Mouse) Lysate at 40 ug Primary: Anti- CD4 (bs-0647R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 55kD

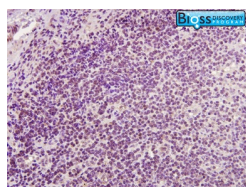
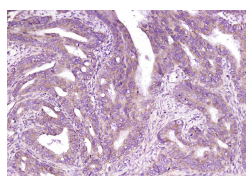
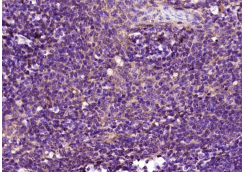


Image was kindly submitted by Dr.David M Burmeister from US Army Institute of Surgical Research. Pig lymph nodes stained with Rabbit Anti-CD4 Polyclonal Antibody(bs-0647R)at 1:300 for one hour at room temperature.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD4) Polyclonal Antibody, Unconjugated (bs-0647R) at 1:4000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD4) Polyclonal Antibody, Unconjugated (bs-0647R) at 1:4000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=13.081] Xu Jun Yan. et al. Interleukin-5-induced eosinophil population improves cardiac function after myocardial infarction. CARDIOVASC RES. 2022 Jul;118(9):2165-2178 IF ; Mouse . 34259869

[IF=12.121] Maria Angelica Cortez. et al. Bone morphogenetic protein 7 promotes resistance to immunotherapy. Nat Commun. 2020 Sep;11(1):1-14 IHC ; Mouse . 32973129

[IF=11.7] Jay Pundavela. et al. Stimulator of interferon gene facilitates recruitment of effector CD8 T cells that drive neurofibromatosis type 1 nerve tumor initiation and maintenance. SCI ADV. 2024 Oct;10(42) FC ; Mouse . 39413183

[IF=11.467] Shuang Zhou. et al. Tumor microenvironment adrenergic nerves blockade liposomes for cancer therapy. J CONTROL RELEASE. 2022 Nov;351:656 IF ; Mouse . 36183971

[IF=10.435] Wan, Guoyun. et al. Gene augmented nuclear-targeting sonodynamic therapy via Nrf2 pathway-based redox balance adjustment boosts peptide-based anti-PD-L1 therapy on colorectal cancer. J Nanobiotechnol. 2021 Dec;19(1):1-26 IF ; Mouse . 34715867