

bs-0647R**[Primary Antibody]****Bioss**
ANTIBODIES

www.bioss.com.cn

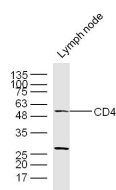
sales@bioss.com.cn

techsupport@bioss.com.cn

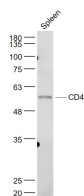
400-901-9800

CD4 Rabbit pAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 920**SWISS:** P01730**Target:** CD4**Immunogen:** KLH conjugated synthetic peptide derived from human CD4: 385-457/457. < Cytoplasmic >**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

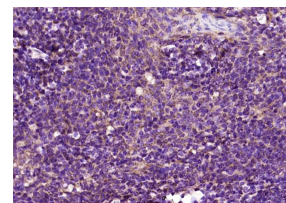
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].**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**Subcellular Location:** Cell membrane**— VALIDATION IMAGES —**

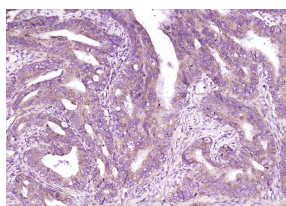
Sample: Lymph node(Mouse) Lysate at 40 ug
 Primary: Anti- CD4 (bs-0647R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD
 Observed band size: 55kD



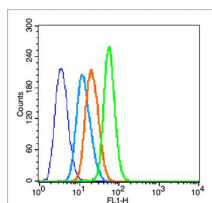
Sample: Spleen (Mouse) Lysate at 40 ug Primary:
 Anti- CD4 (bs-0647R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD
 Observed band size: 55 kD



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.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by



Blank control (blue line): HL60 (fixed with 2% paraformaldehyde (10 min) and then

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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.

permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-CD4 antibody (bs-0647R), Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, dilution: 1µg /test.

— SELECTED CITATIONS —

- **[IF=27.7]** Yang Liu. et al. Generation of tolerogenic antigen-presenting cells in vivo via the delivery of mRNA encoding PDL1 within lipid nanoparticles..Nature Biomedical Engineering.2025 Mar 28. IHC ;Mouse. 40155762
- **[IF=16]** Chufan Wang. et al. Enhanced Nano-Vaccine Utilizing Biomaterialized Virus-like Particles for Efficient Glioblastoma Immunotherapy via the Nose-To-Brain Delivery Pathway. ACS NANO. 2025;19(22):21154–21168 IF ;Mouse. 40442950
- **[IF=13.3]** Qing Liao. et al. Gut microbial metabolite 4-hydroxybenzoic acid drives colorectal cancer progression via accumulation of immunosuppressive PMN-MDSCs. J CLIN INVEST. 2025 Apr;; IHC ;Human. 40179015
- **[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