## bs-0647R

## [ Primary Antibody ]

# Bioss

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# CD4 Rabbit pAb

- DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**GenelD:** 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 antigenes 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

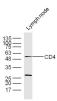
(predicted: Rat, Sheep, Cow, Dog, GuineaPig,

MACFA)

Predicted 48 kDa

Subcellular Location: Cell membrane

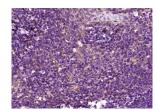
### VALIDATION IMAGES



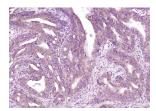
Sample: Lymph node(Mouse) Lysate at 40 ug Primary: Anti- CD4 (bs-0647R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 55kD



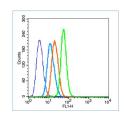
Sample: Spleen (Mouse) Lysate at 40 ug Primary: Anti- CD4 (bs-0647R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 55 kD



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

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:  $1\mu g$ /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat antirabbit IgG-FITC,dilution:  $1\mu g$ /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=20.3] Guoyun Wan. et al. Light-cured millineedle platform delivers "nano-pomegranate" for combinatorial electrodynamic therapy and cuproptosis against oral carcinoma. BIOACT MATER. 2025 Nov;53:718 FC; Mouse. 40801019
- [IF=16] Chufan Wang. et al. Enhanced Nano-Vaccine Utilizing Biomineralized 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-hydroxybenzeneacetic 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