

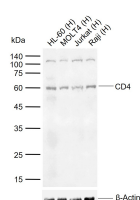
bs-0766R**[Primary Antibody]****Bioss**
ANTIBODIES

www.bioss.com.cn

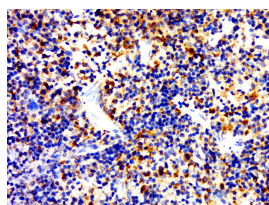
sales@bioss.com.cn

techsupport@bioss.com.cn

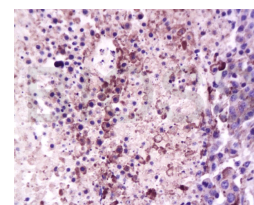
400-901-9800

CD4 Rabbit pAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 12504**SWISS:** P06332**Target:** CD4**Immunogen:** KLH conjugated synthetic peptide derived from the middle of mouse CD4: 231-330/457. < Extracellular >**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].
The CD4 antigen is involved in the recognition of MHC class II molecules and is a co-receptor for HIV. CD4 is primarily expressed in a subset of T-lymphocytes, also referred to as T helper cells, but may also be expressed by other cells in the immune system, such as monocytes, macrophages, and dendritic cells. At the tissue level, CD4 expression may be detected in thymus, lymph nodes, tonsils, and spleen, and also in specific regions of the brain, gut, and other non-lymphoid tissues. CD4 functions to initiate or augment the early phase of T-cell activation through its association with the T-cell receptor complex and protein tyrosine kinase, Lck. It may also function as an important mediator of direct neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcripts have been identified in this gene [RefSeq, July 2017].**Applications:** **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 48 kDa**Observed MW.:** 60 kDa**Subcellular Location:** Cell membrane**— VALIDATION IMAGES —**

Sample: Lane 1: Human HL-60 cell lysates Lane 2: Human MOLT4 cell lysates Lane 3: Human Jurkat cell lysates Lane 4: Human Raji cell lysates Primary: Anti-CD4 (bs-0766R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kDa> Observed band size: 60 kDa

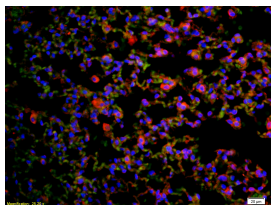


Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD4) Polyclonal Antibody, Unconjugated (bs-0766R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: mouse lymphoma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-CD4 Polyclonal Antibody, Unconjugated(bs-0766R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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



Tissue/cell: rat lung tissue;4%
 Paraformaldehyde-fixed and paraffin-
 embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
 Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CD4(mouse, rat) Polyclonal Antibody, Unconjugated(bs-0766R) 1:200, overnight at 4°C;
 The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.
 DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

— SELECTED CITATIONS —

- **[IF=15.304]** Jinbo Li. et al. Autophagy inhibition recovers deficient ICD-based cancer immunotherapy. BIOMATERIALS. 2022 Aug;287:121651 IF ;Mouse. 35777331
- **[IF=15.1]** Lei Wang. et al. STING Agonist-Loaded Nanoparticles Promotes Positive Regulation of Type I Interferon-Dependent Radioimmunotherapy in Rectal Cancer. ADV SCI. 2023 Dec;;2307858 IF ;Mouse. 38063844
- **[IF=14.1]** Kaiyuan Yu. et al. A Microbial Lipid-ATP Synthase Axis Fuels NK Cell Antitumor Activity. ADV SCI. 2026 Apr;;e20095 IF ;Mouse. 41972457
- **[IF=8.806]** Li TF et al. Dendritic cell-mediated delivery of doxorubicin-polyglycerol-nanodiamond composites elicits enhanced anti-cancer immune response in glioblastoma.Biomaterials. 2018 Oct;181:35-52. IHC ;Human. 30071380
- **[IF=8.39]** Wang, Raymond M., et al. "Humanized mouse model for assessing the human immune response to xenogeneic and allogeneic decellularized biomaterials." Biomaterials (2017). IHC ;="Mouse". 28334641