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## CMKLR1 Rabbit pAb

Catalog Number: bs-10185R

Target Protein: CMKLR1

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)

Reactivity: Human, Mouse (predicted: Sheep, Dog)

Predicted MW: 42 kDa

Source: KLH conjugated synthetic peptide derived from rat CMKLR1: 151-250/371.

Purification: affinity purified by Protein A

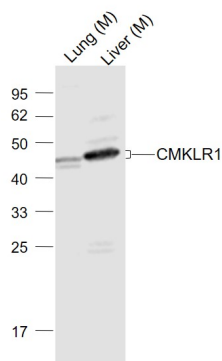
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

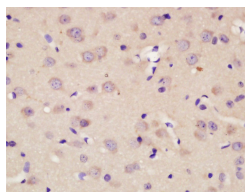
**Background:** Chemokine-Like Receptor 1 (CMKLR1) is a serpentine transmembrane G-protein linked receptor. It is an orphan chemoattractant receptor, also known as ChemR23 or DEZ. CMKLR1 is expressed on the surface of monocyte-derived immature dendritic cells and peripheral plamacytoid dendritic (pDC) cells; but not on myeloid dendritic (mDC) cells, monocytes and lymphocytes. The expression of CMKLR1 on pDC is down-regulated after activation. Chemerin (TIG2) is a natural ligand of CMKLR1. The interaction of CMKLR1 with Chemerin induces pDC activation and chemotaxis. It has been shown that CMKLR1 is a coreceptor for several strains of SIV and HIV-1. CMKLR1 is a potential useful marker for distinguishing pDCs and mDCs.

### VALIDATION IMAGES

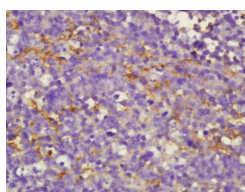
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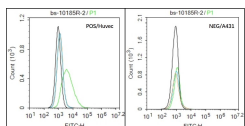
Sample: Lane 1: Lung (Mouse) Lysate at 40 ug Lane 2: Liver (Mouse) Lysate at 40 ug Primary: Anti-CMKLR1 (bs-10185R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD



Tissue/cell: rat brain 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-CMKLR1 Polyclonal Antibody, Unconjugated (bs-10185R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Tissue/cell: human glioma 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-CMKLR1 Polyclonal Antibody, Unconjugated (bs-10185R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Black line : Positive blank control HUVEC; Negative blank control (A431) Green line : Primary Antibody (Rabbit Anti-CMKLR1 antibody (bs-10185R) ) Orange line : Isotype Control Antibody (Rabbit IgG) . Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF488) HUVEC (Positive) and A431 (Negative control) cells (black) were incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with CMKLR1 Antibody (bs-10185R) at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody (blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

## PRODUCT SPECIFIC PUBLICATIONS

[IF=7.58] Qu, Xinli, et al. "Resolvins E1 and D1 inhibit interstitial fibrosis in the obstructed kidney via inhibition of local fibroblast proliferation." The Journal of pathology 228.4 (2012): 506-519. WB, IHC ; ="Mouse" . 22610993

[IF=5.195] Jing-Xiao Wang. et al. Chemerin-9 in paraventricular nucleus increases sympathetic outflow and blood pressure via glutamate receptor-mediated ROS generation. EUR J PHARMACOL. 2022 Dec;936:175343 WB ; Rat . 36306926

[IF=3.61] Peng, Lei, et al. "The Chemerin Receptor CMKLR1 is a Functional Receptor for Amyloid- $\beta$  Peptide." Journal of Alzheimers Disease (2014). Other ; ="Mouse" . 25079809

[IF=3.448] Hanthazi A et al. Chemerin influences endothelin-and serotonin-induced pulmonary artery vasoconstriction in rats. Life Sci. 2019 Jun 16;116580. IHC ; Rat . 31216440