# bs-10185R

# [ Primary Antibody ]

www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

# CMKLR1 Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Target: CMKLR1

**Immunogen:** KLH conjugated synthetic peptide derived from rat CMKLR1: 151-250/371. < Extracellular >

**Purification:** affinity purified by Protein A

Concentration: 1mg/ml

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

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 downregulated 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.

Applications: WB (1:500-2000)

IHC-P (1:100-500) IHC-F (1:100-500) **IF** (1:100-500)

Reactivity: Human, Mouse

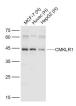
(predicted: Rat, Sheep, Dog)

Predicted

42 kDa MW.:

Subcellular Location: Cell membrane

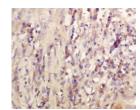
## VALIDATION IMAGES



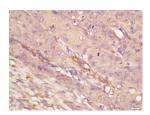
25 ug total protein per lane of various lysates (see on figure) probed with CMKLR1 polyclonal antibody, unconjugated (bs-10185R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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: IRDve800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 42 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffinembedded; 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 laryngeal tissue; 4% Paraformaldehyde-fixed and paraffinembedded; 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

### - SELECTED CITATIONS -

- [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=4.6] Tianmeng Sun. et al.Molecular dynamics of chemotactic signalling orchestrates dental pulp stem cell fibrosis during aging.FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY.2025 Jan 10:12:1530644. Western blot; Mouse. 39866843
- [IF=3.61] Peng, Lei, et al. "The Chemerin Receptor CMKLR1 is a Functional Receptor for Amyloid-β 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