SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-CMKLR1 antibody

SL10185R

Product Name	CMKLR1
Chinese Name	趋化样因子受体 1 抗体
Alias	Chemokine receptor-like 1; CHEMR23; ChemR23; DEZ; Chemokine like receptor 1; G protein ChemR23; G protein coupled receptor DEZ; CML1_HUMAN ; Orphan G protein coupled recep
Research Area	Tumour Cell biology Chromatin and nuclear signals G protein-coupled receptor Epigenetics G p
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Dog,Sheep,Rat)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need a not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from rat CMKLR1: 151-250/371 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse(predicted:Dog,Sheep,Rat)1M TBS(pH7.4) with 1% BSA, Human,Mouse(predict Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d
PubMed	PubMed
Product Detail	Chemokine-Like Receptor 1 (CMKLR1) is a serpentine transmembrane G-protein linked recepto chemoattractant receptor, also known as ChemR23 or DEZ. CMKLR1 is expressed on the surfac immature dendritic cells and peripheral plamacytoid dendritic (pDC) cells; but not on myeloid d

monocytes and lymphocytes. The expression of CMKLR1 on pDC is down-regulated after activa
is a natural ligand of CMKLR1. The interaction of CMKLR1 with Chemerin induces pDC activa
has been shown that CMKLR1 is a coreceptor for several strains of SIV and HIV-1. CMKLR1 is
marker for distinguishing pDCs and mDCs.

Function:
Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid
resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, s
(ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of i
enhancing of adipogenesis and angionesis. Resolvin E1 down-regulates cytokine production in m
the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. Acts as a coreceptor for several SIV stra
SIVMAC239, SIVMACL7E-FR and SIVSM62A), as well as a primary HIV-1 strain (92UG024

Subcellular Location:
Cell membrane.

Tissue Specificity:
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult paratl
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult parath
in cardiovascular system, brain, kidney, gastrointestinal tissues and myeloid tissues. Expressed in
associated with hematopoietic and immune function including, spleen, thymus, appendix, lymph
fetal liver. Among leukocyte populations abundant expression in monocyte-derived macrophage
cells (DCs). High expression in blood monocytes and low levels in polymorphonuclear cells and
endothelial cells.

Similarity:
Belongs to the G-protein coupled receptor 1 family.

SWISS:
Q99788

Gene ID:
1240

Database links:

Entrez Gene: 1240 Human

Entrez Gene: 14747 Mouse

Entrez Gene: 60669 Rat

Omim: 602351 Human

SwissProt: Q99788 Human

SwissProt: P97468 Mouse

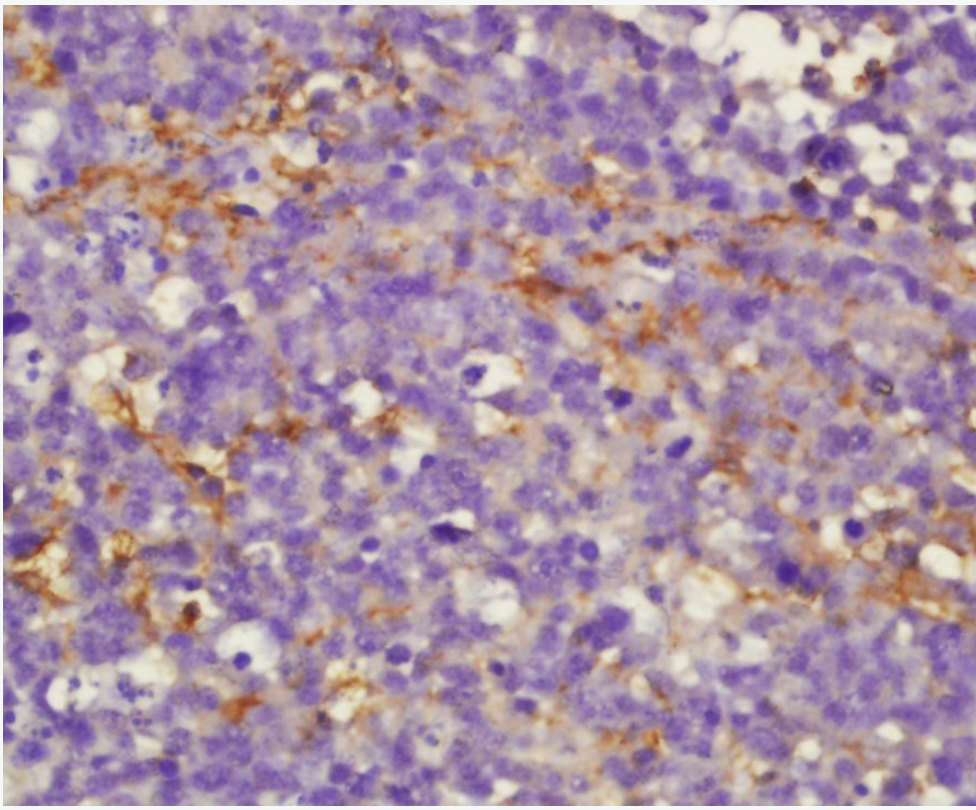
SwissProt: O35786 Rat

Unigene: 197143 Human

Unigene: 5196 Mouse

Unigene: 44465Rat

Product Picture



Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

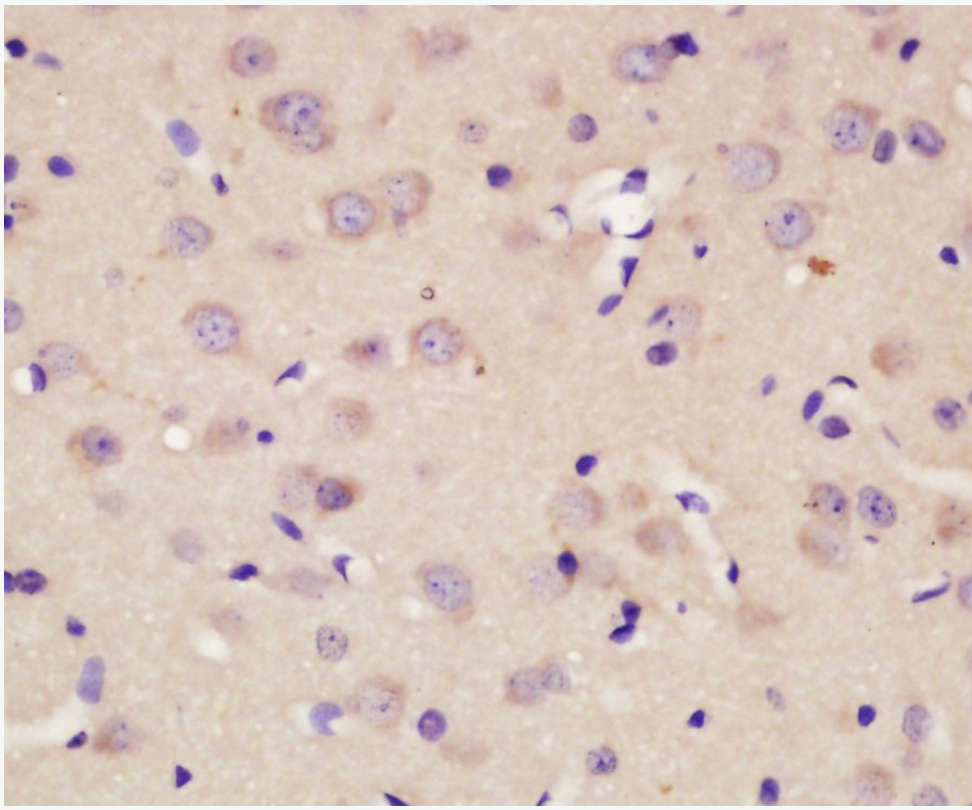
Antigen retrieval: citrate buffer (Human,Mouse(predicted:Dog,Sheep,Rat)1M, pH 6.0), Boili

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal

37℃ for 20 min;

Incubation: Anti-CMKLR1 Polyclonal Antibody, Unconjugated(SL10185R) 1:200, overnight

conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (Human,Mouse(predicted:Dog,Sheep,Rat)1M, pH 6.0), Boili

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal

37℃ for 20 min;

Incubation: Anti-CMKLR1 Polyclonal Antibody, Unconjugated(SL10185R) 1:200, overnight

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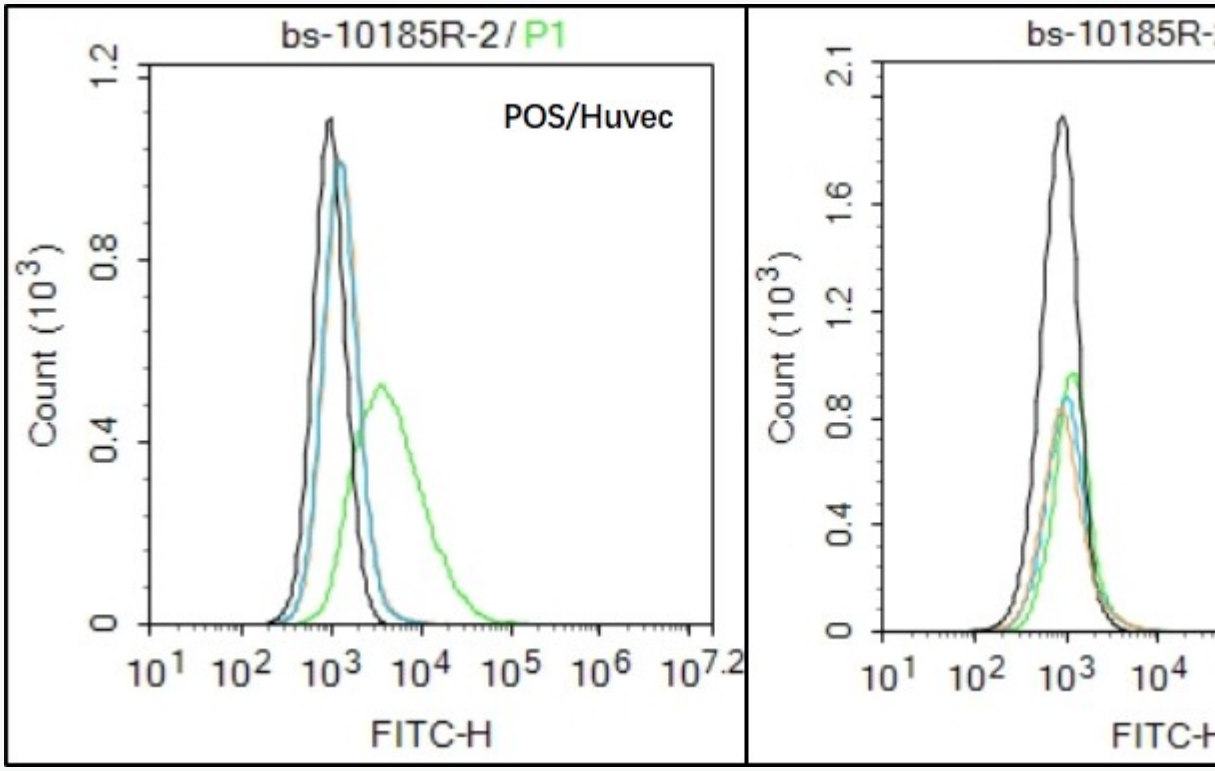

Black line : Positive blank control HUVEC); Negative blank control (A431）

Green line : Primary Antibody (Rabbit Anti-CMKLR1 antibody (SL10185R))

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 bl

at room temperature. Cells were then stained with CMKLR1 Antibody(SL10185R)at 1:50 dilu

and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed

antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were

stained with primary antibody (green), and isotype control (orange).