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# CHEMR23 / CMKLR1 Antibody (C-Terminus)
**Rabbit Polyclonal Antibody**
**Catalog # ALS10119**

## Specification

### CHEMR23 / CMKLR1 Antibody (C-Terminus) - Product Information

| | |
|---|---|
| Application | **IHC-P** |
| Primary Accession | Q99788 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **42kDa KDa** |
| Dilution | **IHC-P~~N/A** |

### CHEMR23 / CMKLR1 Antibody (C-Terminus) - Additional Information

**Gene ID** 1240

**Other Names**
Chemokine-like receptor 1, G-protein coupled receptor ChemR23, G-protein coupled receptor DEZ, CMKLR1, CHEMR23, DEZ

**Target/Specificity**
Human CMKLR1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**
Long term: -70°C; Short term: +4°C

**Precautions**
CHEMR23 / CMKLR1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### CHEMR23 / CMKLR1 Antibody (C-Terminus) - Protein Information

**Name** CMKLR1 (HGNC:2121)

**Synonyms** CHEMR23, DEZ

**Function**
Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 initiates activation of G proteins G(i)/G(o) and beta-arrestin pathways inducing cellular responses via second messenger pathways such as intracellular calcium mobilization, phosphorylation of MAP kinases MAPK1/MAPK3 (ERK1/2), TYRO3, MAPK14/P38MAPK and PI3K leading to multifunctional effects, like reduction of immune responses, enhancing of adipogenesis and angionesis (PubMed:<a href="http://www.uniprot.org/citations/27716822" target="_blank">27716822</a>). Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3

(ERK1/2) and NF- kappa-B. Positively regulates adipogenesis and adipocyte metabolism.

**Cellular Location**
Cell membrane; Multi-pass membrane protein. Note=Internalizes efficiently in response to RARRES2.

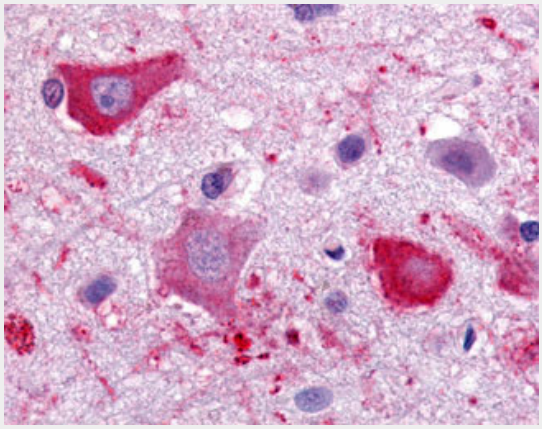
**Tissue Location**
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult parathyroid glands. Expressed in cardiovascular system, brain, kidney, gastrointestinal tissues and myeloid tissues. Expressed in a broad array of tissues associated with hematopoietic and immune function including, spleen, thymus, appendix, lymph node, bone marrow and fetal liver. Among leukocyte populations abundant expression in monocyte-derived macrophage and immature dendritic cells (DCs). High expression in blood monocytes and low levels in polymorphonuclear cells and T-cells. Expressed on endothelial cells. Highly expressed in differentiating adipocytes

## CHEMR23 / CMKLR1 Antibody (C-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CHEMR23 / CMKLR1 Antibody (C-Terminus) - Images



Anti-CMKLR1 antibody ALS10119 IHC of human brain, cortex.

## CHEMR23 / CMKLR1 Antibody (C-Terminus) - Background

Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, such as SKY, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of immune responses, enhancing of adipogenesis and angionesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF- kappa-B. Positively regulates adipogenesis and adipocyte metabolism. Acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMACL7E-FR and SIVSM62A), as well

as a primary HIV-1 strain (92UG024-2).

**CHEMR23 / CMKLR1 Antibody (C-Terminus) - References**

Methner A.,et al.Biochem. Biophys. Res. Commun. 233:336-342(1997).
Samson M.,et al.Eur. J. Immunol. 28:1689-1700(1998).
Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
King M.M.,et al.Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).