

**CMKLR1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50620****Specification**

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**CMKLR1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q99788</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42 KDa
Antigen Region	235-262

**CMKLR1 Antibody - Additional Information****Gene ID** 1240**Other Names**

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

**Dilution**

WB~~ 1:1000

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**CMKLR1 Antibody - 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 angiogenesis (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

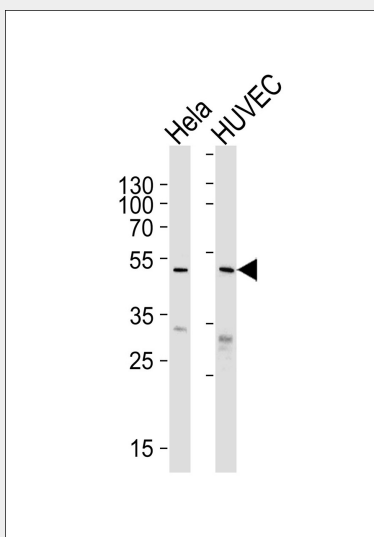
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult parathyroid glands. Expressed in cardiovascular system, brain, kidney, gastrointestinal tissues and myeloid tissues. Expressed in a broad array of tissues associated with hematopoietic and immune function including, 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

### CMKLR1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CMKLR1 Antibody - Images



Western blot analysis of lysates from HeLa, HUVEC cell line (from left to right), using CMKLR1 Antibody (AP50620). AP50620 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.

### CMKLR1 Antibody - 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 SKI, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional

effects, like, reduction of immune responses, enhancing of adipogenesis and angiogenesis. 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).

#### **CMKLR1 Antibody - 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).

#### **CMKLR1 Antibody - Citations**

- [Adipocyte-derived chemerin rescues lipid overload-induced cardiac dysfunction](#)
- [Electronegative low-density lipoprotein of patients with metabolic syndrome induces pathogenesis of aorta through disruption of the stimulated by retinoic acid 6 cascade](#)