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# Anti-CMKLR1 Antibody
**Rabbit polyclonal antibody to CMKLR1**
**Catalog # AP59519**

## Specification

### Anti-CMKLR1 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IP, IHC** |
| Primary Accession | Q99788 |
| Other Accession | P97468 |
| Reactivity | **Human, Mouse, Rat, Pig** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **42322** |

### Anti-CMKLR1 Antibody - Additional Information

**Gene ID** 1240

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

**Target/Specificity**
Recognizes endogenous levels of CMKLR1 protein.

**Dilution**
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IP (1/10 - 1/100)
IP~~N/A
IHC~~1:100~500

**Format**
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**
Store at -20 °C.Stable for 12 months from date of receipt

### Anti-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 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.

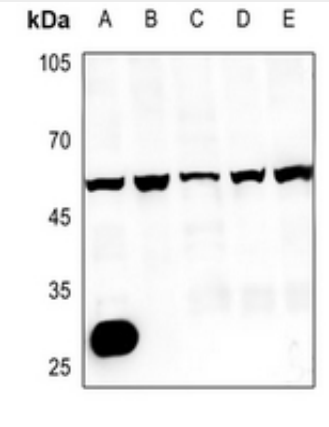
**Tissue Location**
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult parathyroid glands. Expressed in cardiovascular system, brain, kidney, gastrointestinal tissues and myeloid tissues. Expressed in a broad array of tissues associated with hematopoietic and immune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

## Anti-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 Cytomety
- Cell Culture

## Anti-CMKLR1 Antibody - Images




Western blot analysis of CMKLR1 expression in Raw264.7 (A), PMVEC (B), HuT78 (C), A549 (D), LO2 (E) whole cell lysates.

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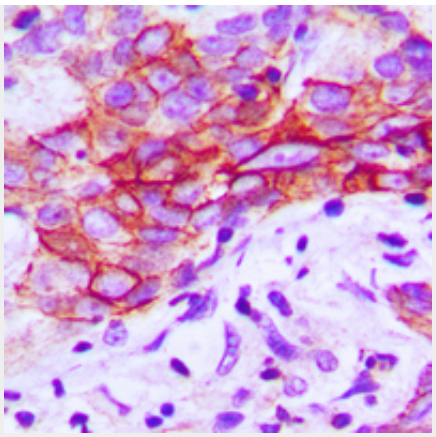

Immunohistochemical analysis of CMKLR1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Anti-CMKLR1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CMKLR1. The exact sequence is proprietary.