10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# ChemR23 Polyclonal Antibody
**Catalog # AP69080**

## Specification

### ChemR23 Polyclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, IF** |
| Primary Accession | Q99788 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |

### ChemR23 Polyclonal Antibody - Additional Information

**Gene ID** 1240

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

**Dilution**
WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
IHC-P~~N/A
IF~~1:50~200

**Format**
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**
-20℃

### ChemR23 Polyclonal 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.

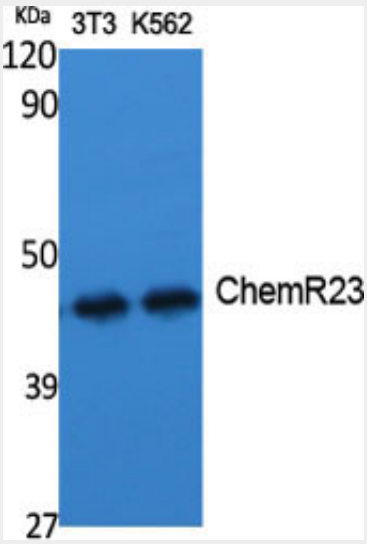
**Tissue Location**
Prominently expressed in developing osseous and cartilaginous tissue. Also found in adult parathyroid glands. Expressed in cardiovascular system, brain, kidney, gastrointestinal tissues and myeloid tissues. Expressed in a broad array of tissues associated with hematopoietic and immune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

## ChemR23 Polyclonal 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

## ChemR23 Polyclonal Antibody - Images




Western Blot analysis of various cells using ChemR23 Polyclonal Antibody diluted at 1□1000

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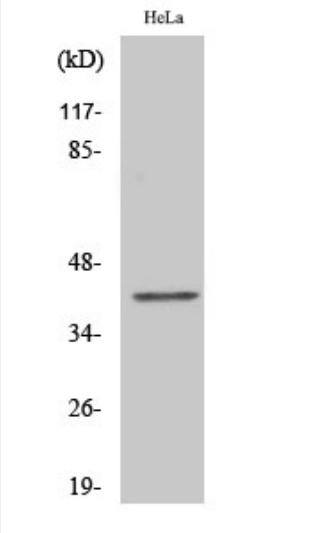
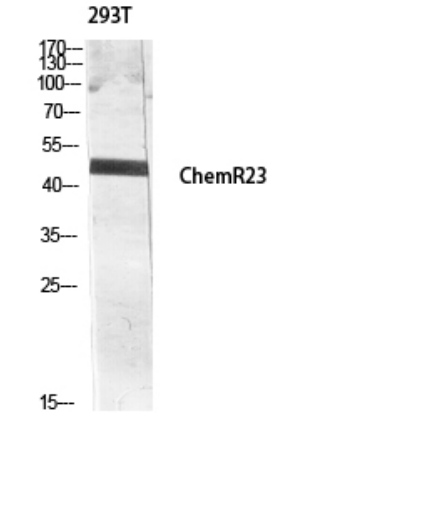
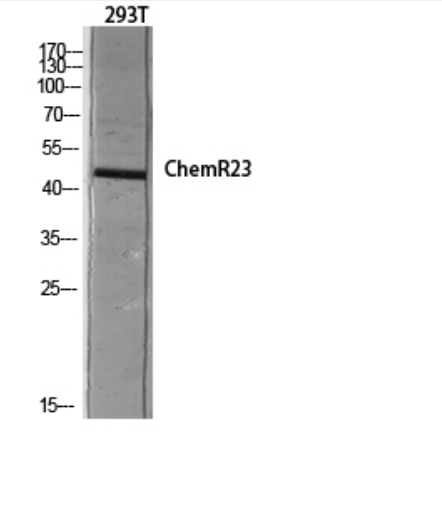



Western Blot analysis of COLO205 cells using ChemR23 Polyclonal Antibody diluted at 1□1000




Western blot analysis of 293T lysis using ChemR23 antibody. Antibody was diluted at 1:1000




Western blot analysis of 293T lysis using ChemR23 antibody. Antibody was diluted at 1:1000

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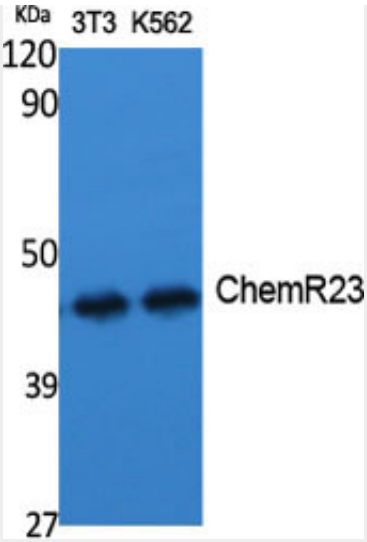
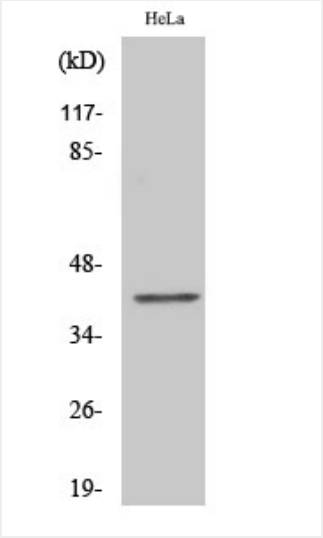
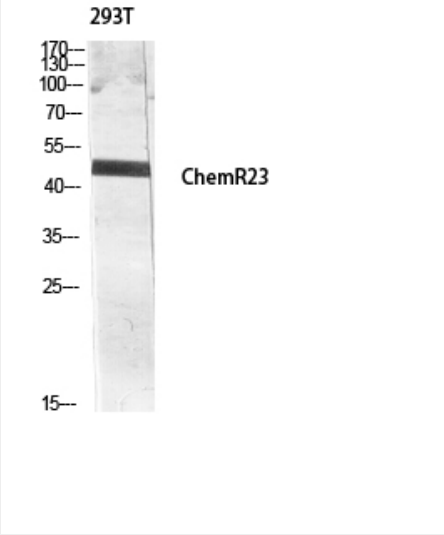



Western Blot analysis of various cells using ChemR23 Polyclonal Antibody diluted at 1□1000




Western Blot analysis of COLO205 cells using ChemR23 Polyclonal Antibody diluted at 1□1000




Western blot analysis of 293T lysis using ChemR23 antibody. Antibody was diluted at 1:1000

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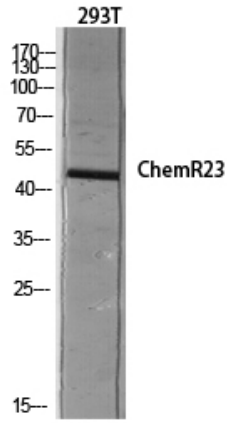


Western blot analysis of 293T lysis using ChemR23 antibody. Antibody was diluted at 1:1000

**ChemR23 Polyclonal 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 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).