

## chemerin Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54258

## **Specification**

# chemerin Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Pig, Bovine
Host
Clonality
Calculated MW
Physical State

Q99969
Pig, Bovine
Rabbit
Polyclonal
18 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from rabbit chemerin

Epitope Specificity 101-163/163

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted (Potential).

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

## **Background Descriptions**

This gene encodes a secreted chemotactic protein that initiates chemotaxis via the ChemR23 G protein-coupled seven-transmembrane domain ligand. Expression of this gene is upregulated by the synthetic retinoid tazarotene and occurs in a wide variety of tissues. The active protein has several roles, including that as an adipokine, and is truncated on both termini from the proprotein. [provided by RefSeq, Dec 2008].

## chemerin Polyclonal Antibody - Additional Information

### **Gene ID** 5919

# **Other Names**

Retinoic acid receptor responder protein 2, Chemerin, RAR-responsive protein TIG2, Tazarotene-induced gene 2 protein, RARRES2, TIG2

# **Target/Specificity**

Highly expressed in skin (basal and suprabasal layers of the epidermis, hair follicles and endothelial cells). Also found in pancreas, liver, spleen, prostate, ovary, small intestine and colon.

#### **Dilution**

<span class ="dilution\_WB">WB~~1:1000/span><br/>f \><span class</pre>

="dilution\_IHC-P">IHC-P $\sim$ N/A</span><br\><span class

="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class



="dilution\_IF">IF $\sim$ 1:50 $\sim$ 200</span><br \><span class ="dilution\_ICC">ICC $\sim$ N/A</span><br \><span class ="dilution\_E">E $\sim$ N/A</span>

## **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## chemerin Polyclonal Antibody - Protein Information

Name RARRES2

**Synonyms TIG2** 

#### **Function**

Adipocyte-secreted protein (adipokine) that regulates adipogenesis, metabolism and inflammation through activation of the chemokine-like receptor 1 (CMKLR1). Also acts as a ligand for CMKLR2. Can also bind to C-C chemokine receptor-like 2 (CCRL2), but with a lower affinity than it does to CMKLR1 or CMKLR2 (PubMed: <a href="http://www.uniprot.org/citations/27716822" target=" blank">27716822</a>). Positively regulates adipocyte differentiation, modulates the expression of adipocyte genes involved in lipid and glucose metabolism and might play a role in angiogenesis, a process essential for the expansion of white adipose tissue. Also acts as a pro-inflammatory adipokine, causing an increase in secretion of pro-inflammatory and prodiabetic adipokines, which further impair adipose tissue metabolic function and have negative systemic effects including impaired insulin sensitivity, altered glucose and lipid metabolism, and a decrease in vascular function in other tissues. Can have both pro- and anti- inflammatory properties depending on the modality of enzymatic cleavage by different classes of proteases. Acts as a chemotactic factor for leukocyte populations expressing CMKLR1, particularly immature plasmacytoid dendritic cells, but also immature myeloid DCs, macrophages and natural killer cells. Exerts an anti-inflammatory role by preventing TNF/TNFA-induced VCAM1 expression and monocytes adhesion in vascular endothelial cells. The effect is mediated via inhibiting activation of NF-kappa-B and CRK/p38 through stimulation of AKT1/NOS3 signaling and nitric oxide production. Its dual role in inflammation and metabolism might provide a link between chronic inflammation and obesity, as well as obesity-related disorders such as type 2 diabetes and cardiovascular disease. Exhibits an antimicrobial function in the skin.

#### **Cellular Location**

Secreted {ECO:0000250|UniProtKB:Q9DD06}.

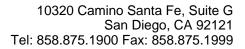
### **Tissue Location**

Expressed at the highest levels in placenta, liver, and white adipose tissue (WAT), and to a lesser extent in many other tissues such as lung, brown adipose tissue, heart, ovary, kidney, skeletal muscle and pancreas. Within WAT, expression is enriched in adipocytes as compared to the stromal vascular fraction. Expression and secretion increases dramatically with adipogenesis. Highly expressed in skin (basal and suprabasal layers of the epidermis, hair follicles and endothelial cells). Expression is elevated in numerous metabolic and inflammatory diseases including psoriasis, obesity, type 2 diabetes, metabolic syndrome and cardiovascular disease

## chemerin Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides





• Dot Blot

- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

chemerin Polyclonal Antibody - Images