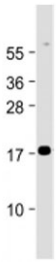
Chemerin Antibody / RARRES2 (F53992)

Catalog No.	Formulation	Size
F53992-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53992-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q99969
Applications	Western blot: 1:2000
Limitations	This Chemerin antibody is available for research use only.



Western blot testing of Chemerin antibody at 1:2000 dilution + human lung lysate. Predicted molecular weight ~19 kDa.

Description

Adipocyte-secreted protein (adipokine) that regulates adipogenesis, metabolism and inflammation through activation of the chemokine-like receptor 1 (CMKLR1). Its other ligands include G protein-coupled receptor 1 (GPR1) and chemokine receptor-like 2 (CCRL2). 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 proinflammatory adipokine, causing an increase in secretion of proinflammatory 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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Chemerin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 1-35 from the human protein were used as the immunogen for this Chemerin antibody.

Storage

Aliquot the Chemerin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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