

GPR39 Antibody (C-Terminus) Rabbit Polyclonal Antibody Catalog # ALS10045

Specification

GPR39 Antibody (C-Terminus) - Product Information

HC-P
<u> </u>
luman
Rabbit
olyclonal
1kDa KDa
HC-P~~N/A

GPR39 Antibody (C-Terminus) - Additional Information

Gene ID 2863

Other Names G-protein coupled receptor 39, GPR39

Target/Specificity Human GPR39. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage Long term: -70°C; Short term: +4°C

Precautions

GPR39 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR39 Antibody (C-Terminus) - Protein Information

Name GPR39

Function

Zinc-sensing receptor that can sense changes in extracellular Zn(2+), mediate Zn(2+) signal transmission, and participates in the regulation of numerous physiological processes including glucose homeostasis regulation, gastrointestinal mobility, hormone secretion and cell death (PubMed:18180304). Activation by Zn(2+) in keratinocytes increases the intracellular concentration of Ca(2+) and activates the ERK/MAPK and PI3K/AKT signaling pathways leading to epithelial repair (PubMed:20522546). Plays an essential role in normal wound healing by inducing the production of cytokines including the major inflammatory cytokine IL6 via the PKC/MAPK/CEBPB pathway (By similarity). Regulates adipose tissue metabolism, especially lipolysis, and regulates the function of lipases, such as hormone-sensitive lipase and adipose triglyceride lipase (By similarity). Plays a role in the



inhibition of cell death and protects against oxidative, endoplasmic reticulum and mitochondrial stress by inducing secretion of the cytoprotective pigment epithelium-derived growth factor (PEDF) and probably other protective transcripts in a GNA13/RHOA/SRE-dependent manner (PubMed:18180304). Forms dynamic heteroreceptor complexes with HTR1A and GALR1 depending on cell type or specific physiological states, resulting in signaling diversity: HTR1A-GPR39 shows additive increase in signaling along the serum response element (SRE) and NF-kappa-B pathways while GALR1 acts as an antagonist blocking SRE (PubMed:26365466).

Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Expressed in many tissues, including the stomach, intestine and hypothalamus.

Volume 50 μl

GPR39 Antibody (C-Terminus) - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

GPR39 Antibody (C-Terminus) - Images



Anti-GPR39 antibody ALS10045 IHC of human hippocampus, neurons of area ca1. GPR39 Antibody (C-Terminus) - Background

Zn(2+) acts as a agonist. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Its effect is mediated mainly through G(q)-alpha and G(12)/G(13) proteins. Involved in regulation of body weight, gastrointestinal



mobility, hormone secretion and cell death (By similarity).

GPR39 Antibody (C-Terminus) - References

McKee K.K., et al. Genomics 46:426-434(1997). Kaighin V.A., et al. Submitted (OCT-2008) to the EMBL/GenBank/DDBJ databases. Ota T., et al. Nat. Genet. 36:40-45(2004). Hillier L.W., et al. Nature 434:724-731(2005). Storjohann L., et al. Biochemistry 47:9198-9207(2008).