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GPR35 Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody

Catalog # ALS10038

Specification

GPR35 Antibody (Extracellular Domain) - Product Information

Application	**IHC-P**
Primary Accession	Q9HC97
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**34kDa KDa**
Dilution	**IHC-P~~N/A**

GPR35 Antibody (Extracellular Domain) - Additional Information

Gene ID 2859

Other Names
G-protein coupled receptor 35, Kynurenic acid receptor, KYNA receptor, GPR35

Target/Specificity
Human GPR35. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

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

Precautions
GPR35 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR35 Antibody (Extracellular Domain) - Protein Information

Name GPR35

Function
G-protein coupled receptor that binds to several ligands including the tryptophan metabolite kynurenic acid (KYNA), lysophosphatidic acid (LPA) or 5-hydroxyindoleacetic acid (5-HIAA) with high affinity, leading to rapid and transient activation of numerous intracellular signaling pathways (PubMed:16754668, PubMed:20361937, PubMed:35148838). Plays a role in neutrophil recruitment to sites of inflammation and bacterial clearance through the major serotonin metabolite 5-HIAA that acts as a physiological ligand (PubMed:35148838). Stimulates lipid metabolism, thermogenic, and anti- inflammatory gene expression in adipose tissue once activated by kynurenic acid (By similarity). In macrophages, activation by lysophosphatidic acid

promotes GPR35-induced signaling with a distinct transcriptional profile characterized by TNF production associated with ERK and NF-kappa-B activation. In turn, induces chemotaxis of macrophages (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=Internalized to the cytoplasm after exposure to kynurenic acid

Tissue Location
Predominantly expressed in immune and gastrointestinal tissues.

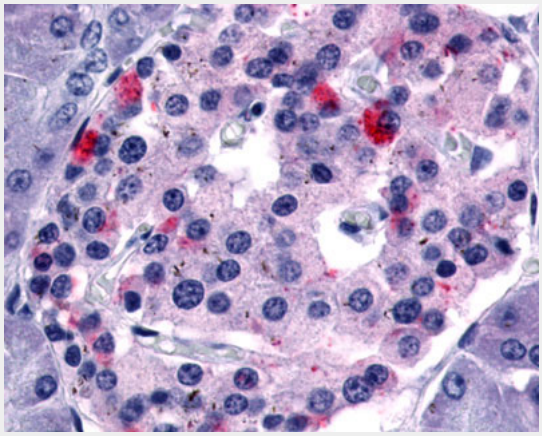
Volume
50 µl

GPR35 Antibody (Extracellular Domain) - 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

GPR35 Antibody (Extracellular Domain) - Images



Anti-GPR35 antibody ALS10038 IHC of human pancreas.

GPR35 Antibody (Extracellular Domain) - Background

Acts as a receptor for kynurenic acid, an intermediate in the tryptophan metabolic pathway. The activity of this receptor is mediated by G-proteins that elicit calcium mobilization and inositol phosphate production through G(qi/o) proteins.

GPR35 Antibody (Extracellular Domain) - References

O'Dowd B.F.,et al.Genomics 47:310-313(1998).
Horikawa Y.,et al.Nat. Genet. 26:163-175(2000).

Warren C.N.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.