

GPR35 Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10038**Specification**

GPR35 Antibody (Extracellular Domain) - Product Information

Application	IHC
Primary Accession	O9HC97
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34kDa KDa

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](http://www.uniprot.org/citations/16754668), PubMed: [20361937](http://www.uniprot.org/citations/20361937), PubMed: [35148838](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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.

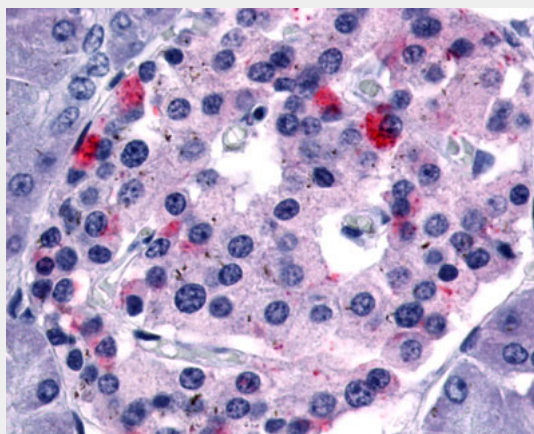
Volume

50 μ l

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 Cytometry](#)
- [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.