

FFAR1 / GPR40 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10412**Specification**

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - Product Information

Application	IHC
Primary Accession	O14842
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31kDa KDa

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - Additional Information**Gene ID** 2864**Other Names**

Free fatty acid receptor 1, G-protein coupled receptor 40, FFAR1, GPR40

Target/Specificity

Human GPR40. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - Protein Information**Name** FFAR1**Synonyms** GPR40**Function**

G-protein coupled receptor for medium and long chain saturated and unsaturated fatty acids that plays an important role in glucose homeostasis. Fatty acid binding increases glucose-stimulated insulin secretion, and may also enhance the secretion of glucagon-like peptide 1 (GLP-1). May also play a role in bone homeostasis; receptor signaling activates pathways that inhibit osteoclast differentiation (By similarity). Ligand binding leads to a conformation change that triggers signaling via G-proteins that activate phospholipase C, leading to an increase of the intracellular calcium concentration. Seems to act through a G(q) and G(i)-mediated pathway. Mediates the anti-inflammatory effects of omega-3 polyunsaturated fatty acids (PUFAs) via inhibition of NLRP3 inflammasome activation.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Detected in brain and pancreas. Detected in pancreatic beta cells.

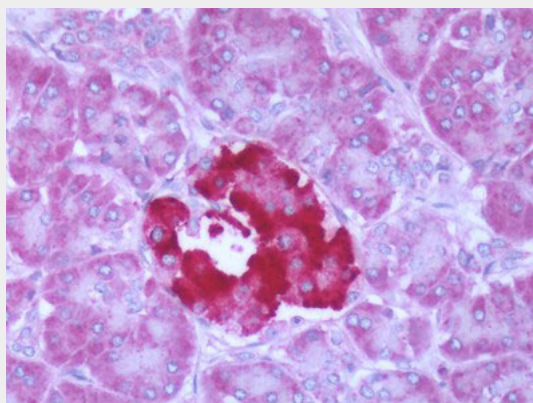
Volume

50 μ l

FFAR1 / GPR40 Antibody (Cytoplasmic 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](#)

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - Images

Human Pancreas: Formalin-Fixed, Paraffin-Embedded (FFPE)

FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - Background

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FFAR1 / GPR40 Antibody (Cytoplasmic Domain) - References

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Tomita T.,et al.Biochem. Biophys. Res. Commun. 338:1788-1790(2005).
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