

FFAR1 antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # AI16189

Product Information

Application WB Primary Accession 014842

Other Accession NM 005303, NP 005294

Reactivity PredictedHuman, Mouse, Rat, Pig, Dog, Bovine
Human, Mouse, Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 31457

Additional Information

Gene ID 2864

Alias Symbol FFA1R, GPCR40, GPR40

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

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-FFAR1 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions FFAR1 antibody - N-terminal region is for research use only and not for use in

diagnostic or therapeutic procedures.

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.

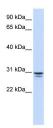
Background

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.

References

Sawzdargo M., et al. Biochem. Biophys. Res. Commun. 239:543-547(1997). Briscoe C.P., et al.J. Biol. Chem. 278:11303-11311(2003). Tomita T., et al. Biochem. Biophys. Res. Commun. 338:1788-1790(2005). Sum C.S., et al.J. Biol. Chem. 282:29248-29255(2007). Sum C.S., et al.J. Biol. Chem. 284:3529-3536(2009).

Images



WB Suggested Anti-FFAR1 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:12500

Positive Control: Human Liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.