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FFAR1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16189

Specification

FFAR1 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	O14842
Other Accession	NM_005303, NP_005294
Reactivity	**Human, Mouse, Rat, Pig, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Pig, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**31kDa KDa**

FFAR1 antibody - N-terminal region - 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.

FFAR1 antibody - N-terminal region - 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

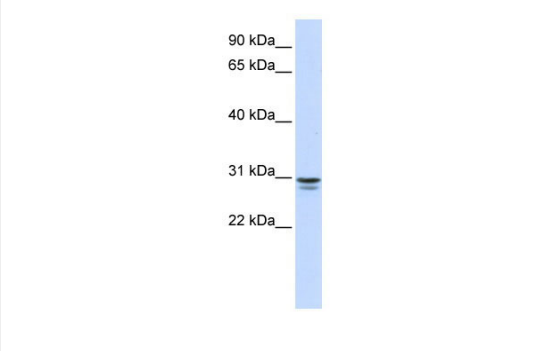
Tissue Location
Detected in brain and pancreas. Detected in pancreatic beta cells.

FFAR1 antibody - N-terminal region - 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

FFAR1 antibody - N-terminal region - Images



WB Suggested Anti-FFAR1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human Liver

FFAR1 antibody - N-terminal region - 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.

FFAR1 antibody - N-terminal region - References

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