

GPR40 Polyclonal Antibody

Catalog # AP70202

Specification

GPR40 Polyclonal Antibody - Product Information

Application WB, IF Primary Accession 014842

Reactivity Human, Monkey

Host Rabbit Clonality Polyclonal

GPR40 Polyclonal Antibody - Additional Information

Gene ID 2864

Other Names

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

GPR40 Polyclonal Antibody - 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

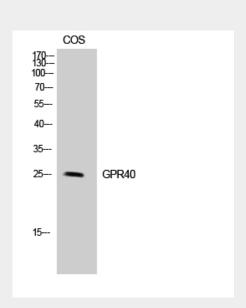
Detected in brain and pancreas. Detected in pancreatic beta cells.

GPR40 Polyclonal Antibody - Protocols

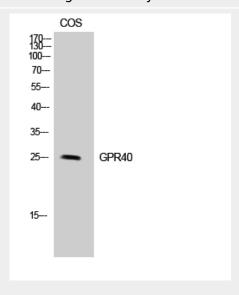
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR40 Polyclonal Antibody - Images

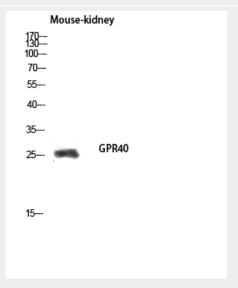


Western Blot analysis of COS7 cells using GPR40 Polyclonal Antibody diluted at 1□500

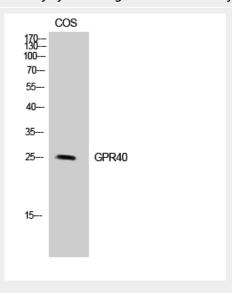




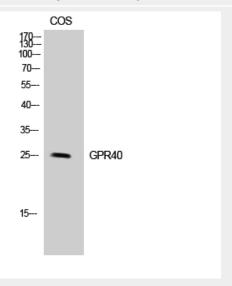
Western Blot analysis of COS-7 cells using GPR40 Polyclonal Antibody diluted at 1□500



Western blot analysis of Mouse-kidney lysis using GPR40 antibody. Antibody was diluted at 1:500

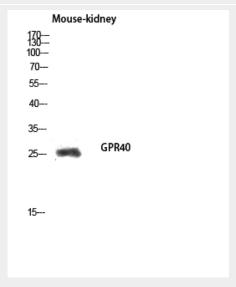


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Western Blot analysis of COS-7 cells using GPR40 Polyclonal Antibody diluted at 1□500



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GPR40 Polyclonal Antibody - Background

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