

Anti-GPR40 Antibody

Rabbit polyclonal antibody to GPR40

Catalog # AP60710

Product Information

Application	WB
Primary Accession	O14842
Other Accession	Q76JU9
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31457

Additional Information

Gene ID	2864
Other Names	GPR40; Free fatty acid receptor 1; G-protein coupled receptor 40
Target/Specificity	Recognizes endogenous levels of GPR40 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	FFAR1
Synonyms	GPR40
Function	<p>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.</p> <p>Cell membrane; Multi-pass membrane protein</p>

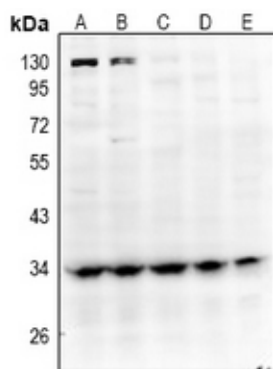
Cellular Location**Tissue Location**

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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR40. The exact sequence is proprietary.

Images



Western blot analysis of GPR40 expression in SGC7901 (A), A2780 (B), Panc1 (C), mouse brain (D), rat brain (E) whole cell lysates.

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