Immunotag™ GPR40 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT2019
Product Description	Immunotag™ GPR40 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GPR40
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Monkey
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human FFAR1. AA range:185-234
Specificity	GPR40 Polyclonal Antibody detects endogenous levels of GPR40 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	FFAR1
Accession No.	O14842 Q76JU9
Alternate Names	FFAR1; GPR40; Free fatty acid receptor 1; G-protein coupled receptor 40
Description	free fatty acid receptor 1(FFAR1) Homo sapiens This gene encodes a member of the GP40 family of G protein-coupled receptors that are clustered together on chromosome 19. The encoded protein is a receptor for medium and long chain free fatty acids and may be involved in the metabolic regulation of insulin secretion. Polymorphisms in this gene may be associated with type 2 diabetes. [provided by RefSeq, Apr 2009],

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Protein Expression	PCR rescued clones,
Subcellular Localization	plasma membrane,integral component of plasma membrane,integral component of membrane,
Protein Function	function:Receptor for medium and long chain saturated and unsaturated fatty acids. Binding of the ligand increase intracellular calcium concentration and amplify glucose-stimulated insulin secretion. The activity of this receptor is mediated by G-proteins that activate phospholipase C. Seems to act through a G(q) and G(i)-mediated pathway.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Expressed abundantly in pancreatic beta cells.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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