

## GPR40 Antibody FITC Conjugated

Catalog No: #C02655F

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## Description

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Product Name          | GPR40 Antibody FITC Conjugated                                                         |
| Host Species          | Rabbit                                                                                 |
| Clonality             | Polyclonal                                                                             |
| Isotype               | IgG                                                                                    |
| Purification          | Purified by Protein A.                                                                 |
| Applications          | ICC IF                                                                                 |
| Species Reactivity    | Hu Ms Rt                                                                               |
| Immunogen Description | KLH conjugated synthetic peptide aa 140-190 300 derived from human GPR40               |
| Conjugates            | FITC                                                                                   |
| Target Name           | GPR40                                                                                  |
| Other Names           | FFA1R; GPR40; GPCR40; Free fatty acid receptor 1; G-protein coupled receptor 40; FFAR1 |
| Accession No.         | Swiss-Prot#O14842NCBI Gene ID2864                                                      |
| Uniprot               | O14842                                                                                 |
| GeneID                | 2864;                                                                                  |
| Excitation Emission   | 494nm 518nm                                                                            |
| Cell Localization     | Extracellular                                                                          |
| Concentration         | 1mg ml                                                                                 |
| Formulation           | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.                       |
| Storage               | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.        |

## Application Details

ICC=1:50-200 IF=1:50-200

## 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.

Note: This product is for in vitro research use only