

## Rat G protein-coupled receptor 40 ELISA Kit | GPR40 elisa kit

Rat G protein-coupled receptor 40 ELISA Kit

|                              |                          |
|------------------------------|--------------------------|
| CATALOG #<br><b>AAA82756</b> | REACTIVITY<br><b>Rat</b> |
|------------------------------|--------------------------|

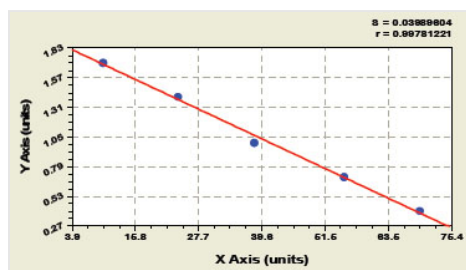
### PRODUCT SYNONYMS

G protein-coupled receptor 40; Rat G protein-coupled receptor 40 ELISA Kit; GPR40 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                      |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                               |
| Assay Type              | Competitive                                                                                                                                                                              |
| Sensitivity             | 0.1 ng/mL.                                                                                                                                                                               |
| Intended Uses           | This GPR-40 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat GPR-40. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

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| Related Product Information for GPR40 elisa kit | <p><b>Principle of the assay:</b> GPR-40 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GPR-40 antibody and an GPR-40-HRP conjugate. The assay sample and buffer are incubated together with GPR-40-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GPR-40 concentration since GPR-40 from samples and GPR-40-HRP conjugate compete for the anti-GPR-40 antibody binding site. Since the number of sites is limited, as more sites are occupied by GPR-40 from the sample, fewer sites are left to bind GPR-40-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GPR-40 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for GPR40 elisa kit   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 22597182                                                                                                                   |
| NCBI GeneID                      | 233081                                                                                                                     |
| Molecular Weight                 | 31,804 Da                                                                                                                  |
| NCBI Official Full Name          | GPR40                                                                                                                      |
| NCBI Official Synonym Full Names | free fatty acid receptor 1                                                                                                 |
| NCBI Official Symbol             | Ffar1                                                                                                                      |
| NCBI Official Synonym Symbols    | Gpr40                                                                                                                      |
| NCBI Protein Information         | free fatty acid receptor 1; G protein-coupled receptor 40; G-protein coupled receptor 40; G protein-coupled receptor GPR40 |
| UniProt Protein Name             | Free fatty acid receptor 1                                                                                                 |
| UniProt Gene Name                | <b>Ffar1</b>                                                                                                               |
| UniProt Synonym Gene Names       | Gpr40                                                                                                                      |
| UniProt Entry Name               | FFAR1_MOUSE                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gpr40-rat-elisa-kits/g-protein-coupled-receptor-40/82756>