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FFAR1

Human Free fatty acid receptor 1

Catalog No.	CSH3007MP CSH3007PR	**Quantity:**	10 mg 50 µg

Alternate Names: FFAR1, G-protein coupled receptor 40

Description: FFAR1 encodes a protein known as Free fatty acid receptor 1, a class A G-protein coupled receptor that is a member of the GP40 family of receptors that are clustered together on chromosome 19. Free Fatty Acid receptors are a group of Gq/11 protein-coupled receptors currently classified into FFA1, FFA2, FFA3 and FFA4 subtypes. These receptors are concentrated in pancreatic islet cells, immune cells and in the brain and are important in immunity and metabolism. FFA1 is a receptor for medium and long chain saturated and unsaturated fatty acids that plays an important role in glucose homeostasis. It is highly expressed in the cells of the pancreas and to a lesser extent in the brain. This membrane protein binds free fatty acids, acting as a nutrient sensor for regulating energy homeostasis.

The receptor is available in the following formats: stable over-expression cell line, membrane preparation, or purified receptor in HEK293 or CHO. Various tagged versions are available.

Gene ID: 2864

UniProtKB: O14842

Format: Cell line, membrane preparation, or purified protein

Source: HEK 293 or CHO cells

Characterization: Expression verified by flow cytometry. Receptor demonstrates biological activity when tested in a radioligand assay.

Affinity Tag Options: 4S-H: 2 x TwinStrep Tag at the amino-terminus, His_{10} tag at the carboxy-terminus

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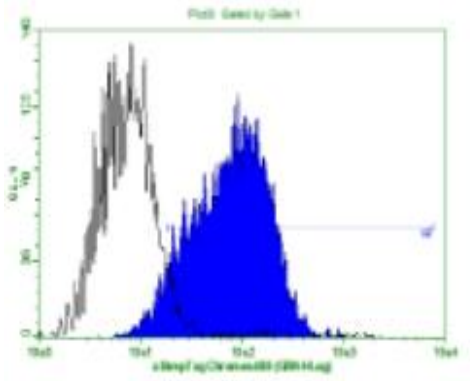
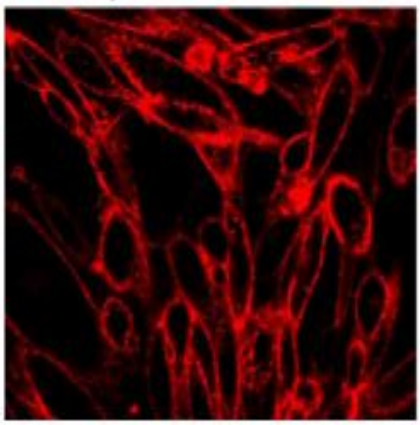
Human FFAR1 receptor was stably overexpressed in CHO cells and expression was assessed by flow cytometry with Strep-Tactin Chromeo 488



Human FFAR1 receptor was stably overexpressed in CHO cells and expression was assessed by immunostaining with Strep-Tactin Chromeo 546



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