

GPR55

G-protein coupled receptor 55

Catalog No.	CSH3086MP	Quantity:	10 mg
	CSH3086PR		50 µg

Alternate Names: G Protein-Coupled Receptor 55, LPIR1

Description: GPR55 encodes the G-protein coupled receptor 55. GPR55 is a non-CB1/CB2 receptor that exhibits affinity for endogenous, plant and synthetic cannabinoids. This receptor may be involved in several physiological and pathological processes by activating a variety of signal transduction pathways. It may be involved in hyperalgesia associated with inflammatory and neuropathic pain. It is a receptor for L-alpha-lysophosphatidylinositol that induces Ca(2+) release from intracellular stores via the heterotrimeric G proteins GNA13 and RHOA. It may play a role in bone physiology by regulating osteoclast number and function. An important paralog of this gene is GPR35.

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: 9290

UniProtKB: Q9Y2T6

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, His₁₀ Tag at the carboxy-terminus

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