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LGR5
Leucine-rich repeat-containing G-protein coupled receptor 5

Catalog No.	CSH3103MP CSH3103PR	**Quantity:**	10 mg 50 µg

Alternate Names: G Protein-Coupled Receptor 49, GPR49, G-Protein Coupled Receptor HG38, G-Protein Coupled Receptor 67, FEX

Description: LGR5 encodes the Leucine-rich repeat-containing G-protein coupled receptor 5, a member of GPCR class A receptor proteins. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), LGR5 associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, LGR5 does not activate heterotrimeric G-proteins to transduce the signal. This receptor is involved in the development and/or maintenance of the adult intestinal stem cells during postembryonic development. An important paralog of this gene is LGR6.

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: 8549

UniProtKB: O75473

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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