

## LGR4

### Leucine-rich repeat-containing G-protein coupled receptor 4

|                    |           |                  |       |
|--------------------|-----------|------------------|-------|
| <b>Catalog No.</b> | CSH3081MP | <b>Quantity:</b> | 10 mg |
|                    | CSH3081PR |                  | 50 µg |

**Alternate Names:** G Protein-Coupled Receptor 48, GPR48, BNMD17

**Description:** LGR4 encodes the Leucine-rich repeat-containing G-protein coupled receptor 4. In contrast to classical G-protein coupled receptors, LGR4 does not activate heterotrimeric G-proteins to transduce the signal. It binds R-spondins and activates the Wnt signaling pathway which is required for the development of various organs, including liver, kidney, intestine, bone, reproductive tract and eye. LGR4 also acts as a negative regulator of innate immunity by inhibiting TLR2/TLR4 associated pattern-recognition and proinflammatory cytokine production. Mutations in this gene have been associated with osteoporosis. 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:** 55366

**UniProtKB:** Q9BXB1

**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<sub>10</sub> Tag at the carboxy-terminus

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