



[Go to Product page](#)

Datasheet for ABIN5510684

## RSP01 ELISA Kit

### 1 Image

#### Overview

Quantity: 96 tests

Target: RSP01

Binding Specificity: AA 21-263

Reactivity: Human

Method Type: Sandwich ELISA

Application: ELISA

#### Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human R-Spondin-1

Brand: PicoKine™

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Expression system for standard: NSO  
Immunogen sequence: S21-A263

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Characteristics: Tissue Specificity: Abundantly expressed in adrenal glands, ovary, testis, thyroid and trachea but not in bone marrow, spinal cord, stomach, leukocytes colon, small intestine, prostate, thymus and spleen. .

#### Target Details

Target: RSP01

## Target Details

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Alternative Name: RSP01 ([RSP01 Products](#))

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Background: Protein Function: Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate 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. Also regulates the canonical Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway. Has a essential roles in ovary determination. .

Background: R-spondin-1 is a secreted protein that in humans is encoded by the Rspo1 gene. It is mapped to chromosome 1p34. This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy- induced adverse effects. Alternative splicing results in multiple transcript variants.

Synonyms: R-spondin-1, Roof plate-specific spondin-1, hRspo1, RSP01,

Full Gene Name: R-spondin-1

Cellular Localisation: Secreted . Nucleus . Seems to mainly localize to nucleoli..

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UniProt: [Q2MKA7](#)

## Application Details

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Plate: Pre-coated

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Restrictions: For Research Use only

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## Handling

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Storage: 4 °C, -20 °C

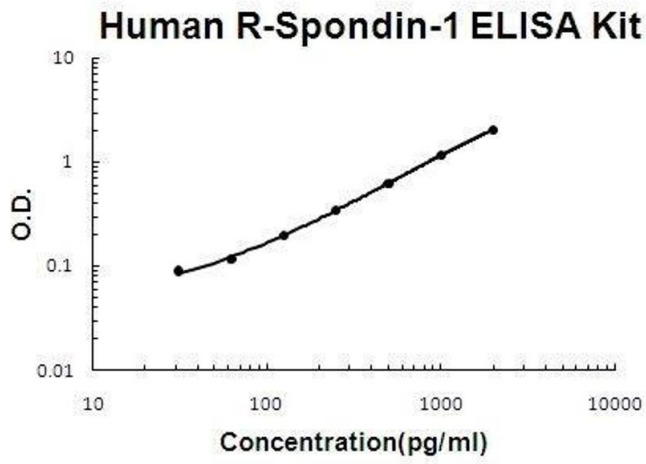
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Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

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Expiry Date: 12 months

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#### ELISA

**Image 1.** Human R-Spondin-1 PicoKine ELISA Kit standard curve