

Product datasheet

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ARG81596 Human RSPO3 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81596-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81596-002	Standard	2 X 10 ng/vial	4°C
ARG81596-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81596-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81596-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81596-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81596-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81596-008	25X Wash buffer	20 ml	4°C
ARG81596-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81596-010	STOP solution	10 ml (Ready to use)	4°C
ARG81596-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81596 Human RSPO3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human

RSPO3 in serum, plasma (heparin, EDTA) and cell culture supernatants.

Tested Reactivity Hu

Tested Application ELISA

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name RSPO3

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 7.8 pg/ml

Sample Type Serum, plasma (heparin, EDTA) and cell culture supernatants.

Standard Range 15.6 - 1000 pg/ml

Sample Volume $100 \ \mu l$

Precision Intra-Assay CV: 5.1%

Inter-Assay CV: 6.0%

Alternate Names Thrombospondin type-1 domain-containing protein 2; PWTSR; R-spondin-3; hRspo3; THSD2; CRISTIN1;

Roof plate-specific spondin-3; Protein with TSP type-1 repeat; hPWTSR

Application Instructions

Assay Time

~ 5 hours

Properties

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

RSPO3

Gene Full Name

R-spondin 3

Background

This gene belongs to the R-spondin family. The encoded protein plays a role in the regulation of Wnt (wingless-type MMTV integration site family)/beta-catenin and Wnt/planar cell polarity (PCP) signaling pathways, which are involved in development, cell growth and disease pathogenesis. Genome-wide association studies suggest a correlation of this gene with bone mineral density and risk of fracture. This gene may be involved in tumor development. [provided by RefSeq, Jul 2013]

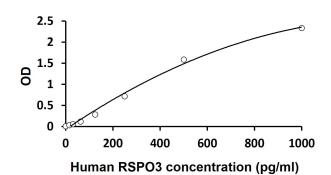
Function

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. [UniProt]

Highlight

Related products: RSPO3 ELISA Kits;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81596 Human RSPO3 ELISA Kit standard curve image

ARG81596 Human RSPO3 ELISA Kit results of a typical standard run with optical density reading at 450 nm.