

ARG81597 Human RSPO1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81597-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81597-002	Standard	2 X 10 ng/vial	4°C
ARG81597-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81597-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81597-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81597-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81597-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81597-008	25X Wash buffer	30 ml	4°C
ARG81597-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81597-010	STOP solution	10 ml (Ready to use)	4°C
ARG81597-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81597 Human RSPO1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human RSPO1 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	RSPO1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.1% Inter-Assay CV: 5.9%
Alternate Names	hRspo1; Roof plate-specific spondin-1; R-spondin-1; RSPO; CRISTIN3

Application Instructions

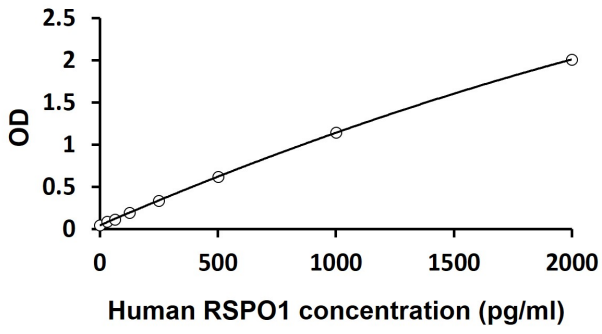
Assay Time	~ 5 hours
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Properties

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	RSPO1
Gene Full Name	R-spondin 1
Background	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. [provided by RefSeq, Apr 2014]
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. [UniProt]
Highlight	Related products: RSPO1 antibodies ; RSPO1 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81597 Human RSPO1 ELISA Kit standard curve image

ARG81597 Human RSPO1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.