



Human R-spondin-1(RSPO1) ELISA kit

Product Code	CSB-EL020550HU
Abbreviation	RSPO1
Protein Biological Process 1	Neurobiology
Target Name	R-spondin homolog (<i>Xenopus laevis</i>)
Uniprot No.	Q2MKA7
Alias	RP11-566C13.1, CRISTIN3, FLJ40906, RSPO, OTTHUMP00000180612 OTTHUMP00000180613 R-spondin1 roof plate-specific spondin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Sensory transduction
Sample Types	serum, plasma, tissue homogenates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Developmental Biology
Gene Names	RSPO1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human RSPO1 ELISA Kit was designed for the quantitative measurement of Human RSPO1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.
Target Details	This gene is a member of the R-spondin family and encodes a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. 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.



Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human RSPO1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	97
1:1	Range %	92-104
	Average %	91
1:2	Range %	82-96
	Average %	103
1:4	Range %	98-109
	Average %	87
1:8	Range %	82-94

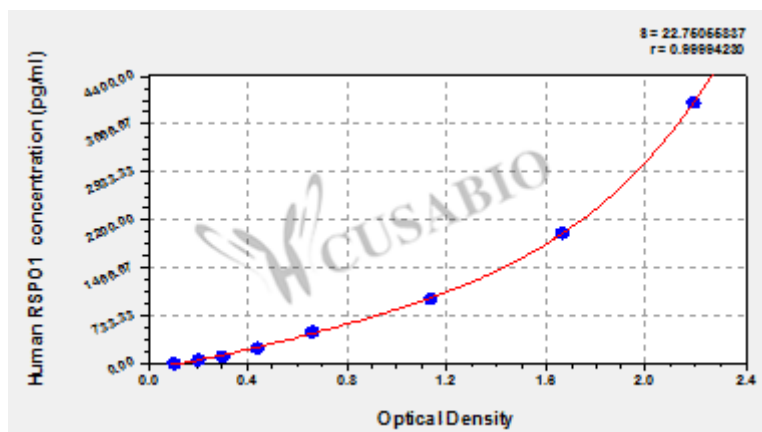
Recovery

The recovery of human RSPO1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	90	85-98
EDTA plasma (n=4)	113	108-117

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
4000	2.162	2.312	2.237	2.121
2000	1.654	1.745	1.700	1.584
1000	1.122	1.212	1.167	1.051
500	0.669	0.698	0.684	0.568
250	0.452	0.464	0.458	0.342
125	0.312	0.322	0.317	0.201
62.5	0.223	0.213	0.218	0.102
0	0.112	0.120	0.116	?

Msds

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