

Datasheet for ABIN2181684

RSP01 Protein (AA 21-263) (His tag)

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Overview

Quantity:	50 µg
Target:	RSP01
Protein Characteristics:	AA 21-263
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RSP01 protein is labelled with His tag.

Product Details

Sequence:	AA 21-263
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 27.6 kDa. The protein migrates as 40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	RSP01
Alternative Name:	R-Spondin 1 (RSP01 Products)

Target Details

Background:	R-spondin-1 is also known as Roof plate-specific Spondin 1 (RSP01) and cysteine-rich and single thrombospondin domain containing protein 3 (Cristin 3), which is a secreted protein which belongs to the R-Spondin family and encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. All R-spondins regulate Wnt/ β -catenin signaling, but have distinct expression patterns. Like other R-Spondins, R-Spondin-1 contains two adjacent cysteine-rich furin-like domains (aa 34-135) with one potential N-glycosylation site, followed by a thrombospondin (TSP1) motif (aa 147-207) and a region rich in basic residues (aa 211-263). Only the furin-like domains are needed for β -catenin stabilization. A putative nuclear localization signal at the C-terminus may allow some expression in the nucleus.
Molecular Weight:	28.7 kDa
NCBI Accession:	NP_001033722

Application Details

Restrictions:	For Research Use only
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Handling

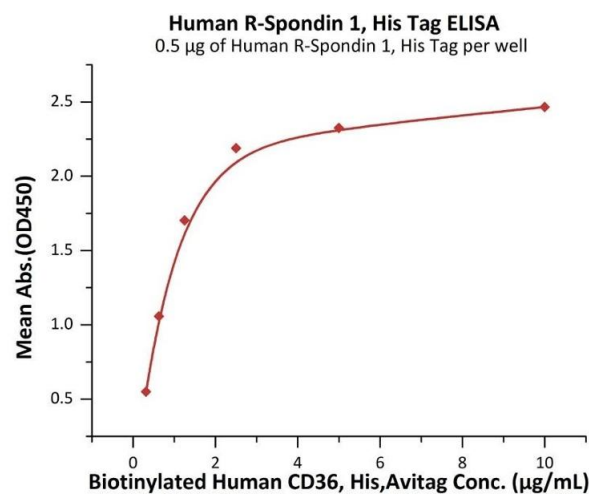
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Publications

Product cited in:	Igarashi, Miura, Williams, Jaksch, Kadowaki, Yamauchi, Guarente: "NAD ⁺ supplementation rejuvenates aged gut adult stem cells." in: Aging cell , Vol. 18, Issue 3, pp. e12935, (2020) (PubMed).
	Park, Choi, Kim, Cheong, Jeong: "AhR activation by 6-formylindolo[3,2-b]carbazole and 2,3,7,8-tetrachlorodibenzo-p-dioxin inhibit the development of mouse intestinal epithelial cells." in: Environmental toxicology and pharmacology , Vol. 43, pp. 44-53, (2017) (PubMed).

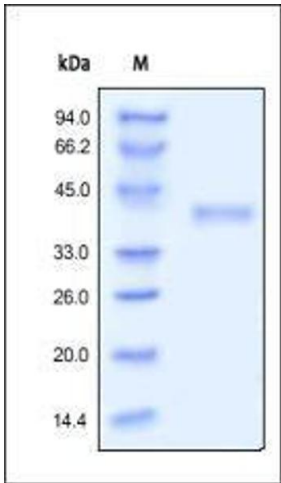
Das, Png, Oancea, Hasnain, Lourie, Proctor, Eri, Sheng, Crane, Florin, McGuckin: "Glucocorticoids alleviate intestinal ER stress by enhancing protein folding and degradation of misfolded proteins." in: **The Journal of experimental medicine**, Vol. 210, Issue 6, pp. 1201-16, (2013) ([PubMed](#)).

Images



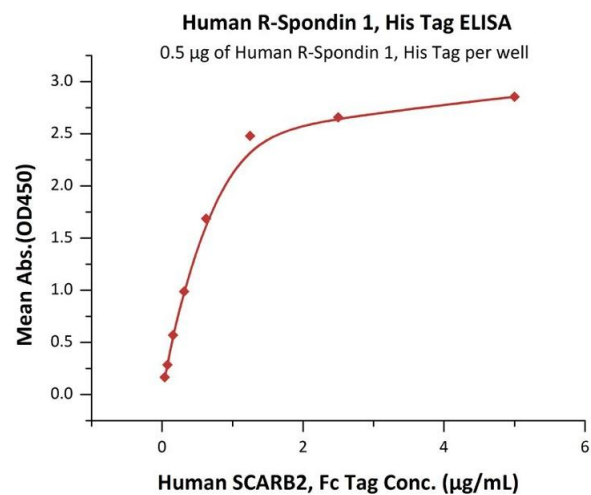
ELISA

Image 1. Immobilized Human R-Spondin 1, His Tag (ABIN2181684,ABIN2181683) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD36, His,Avitag (ABIN6972985) with a linear range of 0.313-1.25 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Human R-Spondin 1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



ELISA

Image 3. Immobilized Human R-Spondin 1, His Tag (ABIN2181684,ABIN2181683) at 5 µg/mL (100 µL/well) can bind Human SCARB2, Fc Tag (ABIN2181728,ABIN2181727) with a linear range of 0.02-0.156 µg/mL (QC tested).