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Datasheet for ABIN7536498  
**RSP01 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	RSP01
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RSP01 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Mouse R-spondin-1/RSP01 Protein
Sequence:	SRGIKGRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCQEALYL HKGRCYPACP EGSTAANSTM ECGSPAQCEM SEWSPWGPCS KKRKLCGFRK GSEERTRRVL HAPGGDHTTC SDTKETRKCT VRRTPCPEGQ KRRKGGQGRR ENANRHPARK NSKEPRSNSR RHKGQQQPQP GTTGPLTSVG PTWAQ
Specificity:	Ser21-Gln265
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.01EU/µg

### Target Details

Target:	RSP01
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## Target Details

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Alternative Name: R-spondin-1/RSP01 ([RSP01 Products](#))

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Background: Description: RSP01 gene is a member of the R-spondin family. It encodes RSP01 which is known as a secreted activator protein with two cystein-rich, furin-like domains and one thrombospondin type 1 domain. In mice, RSP01 induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. This protein is an activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. RSP01 acts both in the canonical Wnt/beta-catenin-dependent pathway and in non-canonical Wnt signaling pathway, probably by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. It also acts as a ligand for frizzled FZD8 and LRP6.

Name: R-spondin, R-spondin,RSP01

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Gene ID: 192199

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UniProt: [Q9Z132](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Concentration: 0.47 mg/mL

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Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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Storage: -20 °C,-80 °C

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Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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