

Supplementary Materials: N-Glycosylation of Human R-Spondin 1 Is Required for Efficient Secretion and Stability but Not for Its Heparin Binding Ability

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Table S1. PCR Primers used for site-directed mutagenesis of human Rspo1, Rspo2 and Rspo3.

Primer Name	Primer Sequence
Rspo1(N137Q)-sense	5'-GCTCCTCAGCTGCCCAAGGCACCATGGAGTG-3'
Rspo1(N137Q)-antisense	5'-CACTCCATGGTGCCTTGGGCAGCTGAGGAGC-3'
Rspo1(Q163N)-sense	5'-GGAAACCACAGAGCTGATTCTTCTTGGAGCAGGGC-3'
Rspo1(Q163N)-antisense	5'-GCCCTGCTCCAAGAAGAATCAGCTCTGTGGTTTCC-3'
Rspo1(L165T)-sense	5'-CCCTCCGGAACACAGGTCTGATTCTTCTTGGAGC-3'
Rspo1(L165T)-antisense	5'-GCTCCAAGAAGAATCAGACCTGTGGTTTCCGGAGGG-3'7Y8
Rspo2(E136N)-sense	5'-CCACACATTCCATGGTTTCGTTTAATGGTGCAAAACCATCTGG-3'
Rspo2(E136N)-antisense	5'-CCAGATGGTTTTGCACCATTAAACGAAACCATGGAATGTGTGG-3'
Rspo2(N160Q)-sense	5'-ATCCACATGTGCGTTGATTTCTGCTACAAGTTCCCCATTTCG-3'
Rspo2(N160Q)-antisense	5'-CGAATGGGGAACCTTGTAGCAGAAATCAACGCACATGTGGAT-3'
Rspo3(N137Q)-sense	5'-AGAAGGGTTGGAAGCCAACCAACATACTATGGAGTGTGTCA-3'
Rspo3(N137Q)-antisense	5'-TGACACACTCCATAGTATGTTGGTTGGCTTCCAACCCTTCT-3'
Rspo3(G163N)-sense	5'-CCTCTTTTGAAGCCACATGTTTGTCTTCTTCGTGCATGGACTCCAAG-3'
Rspo3(G163N)-antisense	5'-CTTGGAGTCCATGCACGAAGAAGAAACAAAACATGTGGCTTCAAAAGAGG-3'

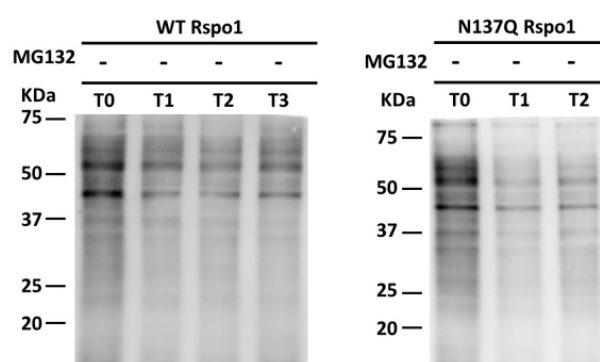


Figure S1. Detection of total biotinylated proteins (newly synthesized proteins) in the pulse-chase labeling of Rspo1-transfected cells in the absence of MG132.

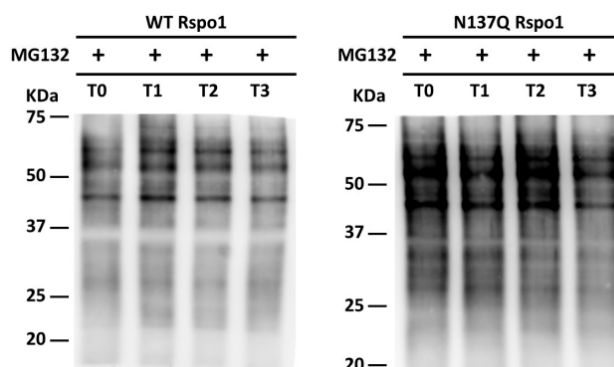


Figure S2. Detection of total biotinylated proteins (newly synthesized proteins) in the pulse-chase labeling of Rspo1-transfected cells in the presence of MG132.