RSPO1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RSPO1, Polyclonal Antibody
Full Product Name	RSPO1 (C-Term) Rabbit pAb
Product Gene Name	anti-RSPO1 antibody
Product Synonym Names	R-spondin-1; Roof plate-specific spondin-1; hRspo1; RSPO1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	609595
3D Structure	ModBase 3D Structure for Q2MKA7
Immunogen	This RSPO1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 206-240 amino acids from human RSPO1.
Cellular Localization	Nucleus, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RSPO1 antibody	Western Blot (WB)
Application Notes for anti-RSPO1 antibody	WB: 1:2000
Related Product Information for anti-RSPO1 antibody	MBS8557833 is an antibody targeting RSPO1. Also known as RSPO1 (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-RSPO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RSPO1. It may not necessarily be applicable to this product.

NCBI GI #	84490388
NCBI GeneID	284654
NCBI Accession #	NP_001033722.1
UniProt Primary Accession #	Q2MKA7
UniProt Related Accession #	Q2MKA7
GenBank Nucleotide #	NP_001033722.1

NCBI Official Full Name	R-spondin-1 isoform 1
NCBI Official Synonym Full Names	R-spondin 1
NCBI Official Symbol	RSPO1
NCBI Official Synonym Symbols	RSPO; CRISTIN3
UniProt Protein Name	R-spondin-1
UniProt Synonym Protein Names	Roof plate-specific spondin-1
Protein Family	R-spondin
UniProt Gene Name	RSPO1
UniProt Synonym Gene Names	hRspo1
UniProt Entry Name	RSPO1_HUMAN
NCBI Protein Information	R-spondin-1
NCBI Summary for RSPO1	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]
UniProt Comments for RSPO1	R-spondin-1: Activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. 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. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway. Has a essential roles in ovary determination. Defects in RSPO1 are the cause of palmoplantar keratoderma with squamous cell carcinoma of skin and sex reversal (PKKSCC). This recessive syndrome is characterized by XX (female to male) SRY-independent sex reversal, palmoplantar hyperkeratosis and predisposition to squamous cell carcinoma of the skin. Belongs to the R-spondin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Cell development/differentiation; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1p34.3 Cellular Component: extracellular space; extracellular region; nucleus Molecular Function: heparin binding; protein binding; G-protein-coupled receptor binding; receptor binding Biological Process: regulation of gene expression; regulation of receptor internalization; Wnt receptor signaling pathway through beta-catenin; positive regulation of protein amino acid phosphorylation; male meiosis; positive regulation of Wnt receptor signaling pathway Disease: Palmoplantar Hyperkeratosis With Squamous Cell Carcinoma Of Skin And 46,xx Sex Reversal
Research Articles on RSPO1	**1.** In this study, we aimed at the Wnt signaling characteristic of Cancer stem cells (CSC) and designed a liposomal drug delivery system to target CSCs. Liposomes decorated with RSPO1 on the surface were constructed for specific interactions with the Wnt pathway coreceptor LGR5.
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