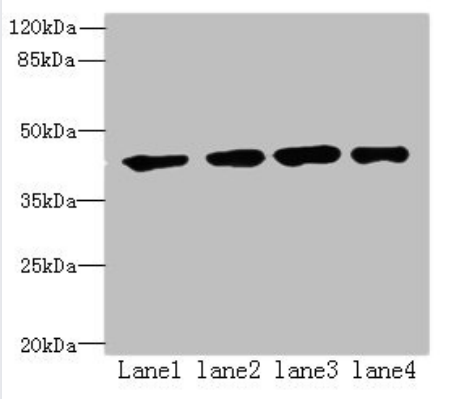
RSPO3 Antibody – Rabbit Polyclonal

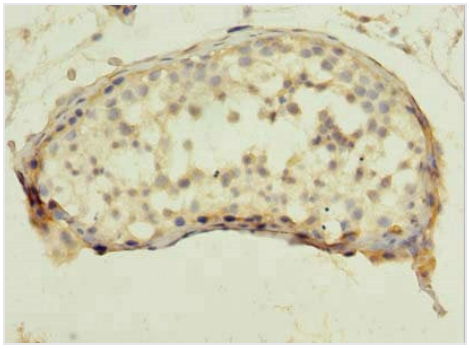
PRODUCT OVERVIEW

Product Name	RSPO3, Polyclonal Antibody
Full Product Name	RSPO3 Antibody
Product Gene Name	anti-RSPO3 antibody
Product Synonym Names	R-spondin-3; RSPO3; PWTSR; THSD2; Protein with TSP type-1 repeat; hPWTSR; Roof plate-specific spondin-3; hRspo3; Thrombospondin type-1 domain-containing protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Affinity Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: RSPO3 (MBS7004635) FITC Conjugated Antibody: RSPO3 (MBS1492985)
Matching Pairs	Unconjugated Antibody: RSPO3 (MBS7004635) HRP Conjugated Antibody: RSPO3 (MBS1493602)
Matching Pairs	Unconjugated Antibody: RSPO3 (MBS7004635) Biotin Conjugated Antibody: RSPO3 (MBS1496832)
Molecular Weight	33,233 Da
OMIM	610574
3D Structure	ModBase 3D Structure for Q9BXY4
Immunogen	Recombinant human R-spondin-3 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RSPO3 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RSPO3 antibody	Recommended dilution: WB:1:500-2000, IHC:1:20-1:200
Related Product Information for anti-RSPO3 antibody	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. Also regulates the canonical Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling 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.

Other Notes	Small volumes of anti-RSPO3 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.
Searchable Terms for RSPO3 purchase	MBS7004635 is an antibody targeting RSPO3. Also known as RSPO3 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RSPO3 antibody
Western blotAll lanes: QTRT1 antibody at 6ug/mlLane 1: MCF7 whole cell lysateLane 2: PC-3 whole cell lysateLane 3: Jurkat whole cell lysateLane 4: A431 whole cell lysateSecondaryGoat polyclonal to Rabbit IgG at 1/10000 dilutionPredicted band size: 24,44 kDaObserved band size: 44 kDa



Immunohistochemistry (IHC) of anti-RSPO3 antibody
Immunohistochemistry of paraffin-embedded human testis using MBS7004635 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RSPO3. It may not necessarily be applicable to this product.

NCBI GI #	18490982
NCBI GeneID	84870
NCBI Accession #	NP_116173.2
UniProt Primary Accession #	Q9BXY4
UniProt Secondary Accession #	Q5VTV4; Q96K87; B2RC27
UniProt Related Accession #	Q9BXY4
GenBank Nucleotide #	NM_032784.4
NCBI Official Full Name	R-spondin-3
NCBI Official Synonym Full Names	R-spondin 3
NCBI Official Symbol	RSPO3
NCBI Official Synonym Symbols	PWTSR; THSD2; CRISTIN1
UniProt Protein Name	R-spondin-3
UniProt Synonym Protein Names	Protein with TSP type-1 repeat; hPWTSR; Roof plate-specific spondin-3; hRspo3; Thrombospondin type-1 domain-containing protein 2
Protein Family	R-spondin
UniProt Gene Name	RSPO3
UniProt Synonym Gene Names	PWTSR; THSD2; hPWTSR; hRspo3
UniProt Entry Name	RSPO3_HUMAN
NCBI Protein Information	R-spondin-3

NCBI Summary for RSPO3	This gene belongs to the R-spondin family. The encoded protein plays a role in the regulation of Wnt (wingless-type MMTV integration site family)/beta-catenin and Wnt/planar cell polarity (PCP) signaling pathways, which are involved in development, cell growth and disease pathogenesis. Genome-wide association studies suggest a correlation of this gene with bone mineral density and risk of fracture. This gene may be involved in tumor development. [provided by RefSeq, Jul 2013]
UniProt Comments for RSPO3	R-spondin-3: 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. Belongs to the R-spondin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Cell development/differentiation; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6q22.33 Cellular Component: extracellular region Molecular Function: frizzled binding; heparin binding; receptor binding Biological Process: angiogenesis; Wnt receptor signaling pathway
Research Articles on RSPO3	**1.** results suggest that the expression of RSPO fusion transcripts is related to a subset of colorectal cancers arising in the Japanese population
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/rspo3/7004635