

Rabbit anti-Human RSPO4 Polyclonal Antibody | anti-RSPO4 antibody

RSPO4 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284704	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

RSPO4; Polyclonal Antibody; RSPO4 Antibody (C-term); R-spondin-4; Roof plate-specific spondin-4; hRspo4; C20orf182; anti-RSPO4 antibody

PRODUCT SPECIFICATIONS

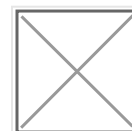
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This RSPO4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 199-228 amino acids from the C-terminal region of human RSPO4.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	199-228
Sequence Length	172
Applicable Applications for anti-RSPO4 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors (PubMed:). 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 (PubMed: , PubMed:21909076).
Cellular Location	Secreted.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

RSPO4 Antibody (C-term)(AAA284704) flow cytometric analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

RSPO4 Antibody (C-term) (AAA284704) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RSPO4 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

RSPO4 Antibody (C-term) (AAA284704) western blot analysis in Jurkat cell line lysates (15ug/lane). This demonstrates the RSPO4 antibody detected the RSPO4 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-RSPO4 antibody	RSPO4 is a member of the R-spondin family of proteins that share a common domain organization consisting of a signal peptide, cysteine-rich/furin-like domain, thrombospondin domain and a C-terminal basic region. The encoded protein may be involved in activation of Wnt/beta-catenin signaling pathways. Mutations in this gene are associated with anonychia congenital. Alternate splicing results in multiple transcript variants.
References	Bergmann, C., et al. Am. J. Hum. Genet. 79(6):1105-1109(2006) Blaydon, D.C., et al. Nat. Genet. 38(11):1245-1247(2006) Kim, K.A., et al. Cell Cycle 5(1):23-26(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	83722284
NCBI GeneID	343637
NCBI Accession #	NP_001025042.2 ; NP_001035096.1
NCBI GenBank Nucleotide #	NM_001029871.3
UniProt Accession #	Q2I0M5 ; Q9UGB2 ; A2A2I6
NCBI Official Full Name	R-spondin-4 isoform 1
NCBI Official Synonym Full Names	R-spondin 4
NCBI Official Symbol	RSPO4
NCBI Official Synonym Symbols	CRISTIN4; C20orf182
NCBI Protein Information	R-spondin-4
UniProt Protein Name	R-spondin-4
UniProt Gene Name	RSPO4
UniProt Synonym Gene Names	C20orf182; hRspo4
UniProt Entry Name	RSPO4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rspo4-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/284704>