

RSPO4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5711b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q2IOM5
Other Accession	NP_001025042.2
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26928
Calculated MW	26171
Antigen Region	199-228

Additional Information

Gene ID	343637
Other Names	R-spondin-4, Roof plate-specific spondin-4, hRspo4, RSPO4, C20orf182
Target/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.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RSPO4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RSPO4
Synonyms	C20orf182

Function	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors (PubMed: 29769720). 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: 21727895 , PubMed: 21909076).
Cellular Location	Secreted.

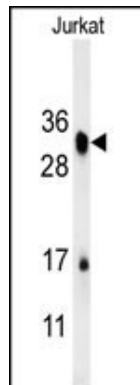
Background

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.

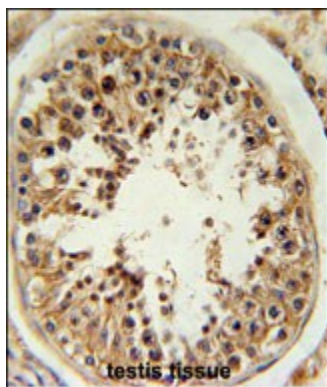
References

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)

Images

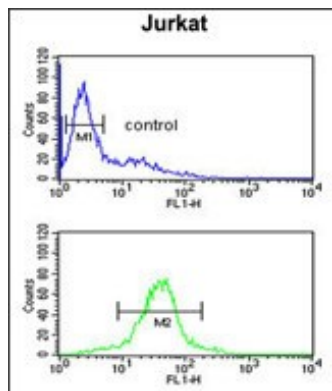


RSPO4 Antibody (C-term) (Cat. #AP5711b) western blot analysis in Jurkat cell line lysates (15ug/lane). This demonstrates the RSPO4 antibody detected the RSPO4 protein (arrow).



RSPO4 Antibody (C-term) (Cat. #AP5711b) 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.

RSPO4 Antibody (C-term) (Cat. #AP5711b) 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.