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RSPO2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5264b

Specification

RSPO2 Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q6UXX9
Other Accession	Q8BFU0
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	28315
Antigen Region	190-218

RSPO2 Antibody (C-term) - Additional Information

Gene ID 340419

Other Names
R-spondin-2, Roof plate-specific spondin-2, hRspo2, RSPO2

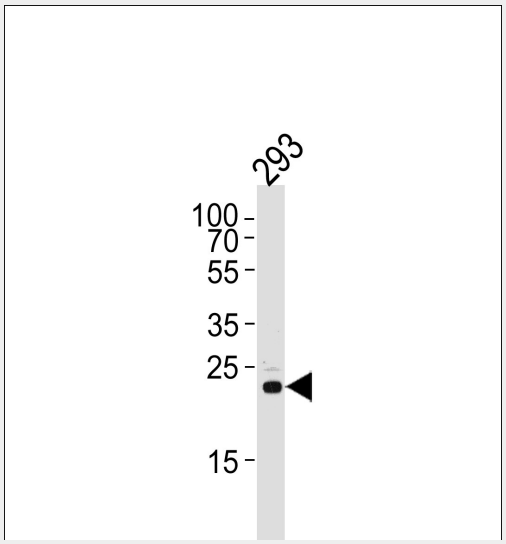
Target/Specificity
This RSPO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 190-218 amino acids from the C-terminal region of human RSPO2.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

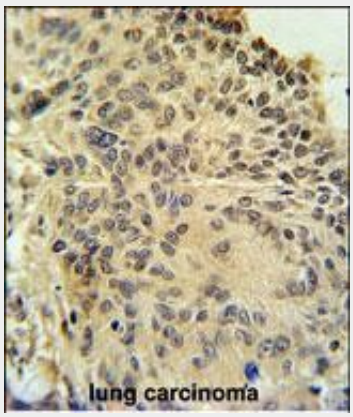
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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



Western blot analysis of lysate from 293 cell line, using RSPO2 Antibody (C-term)(Cat. #AP5264b). AP5264b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



RSPO2 Antibody (C-term) (Cat. #AP5264b) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RSPO2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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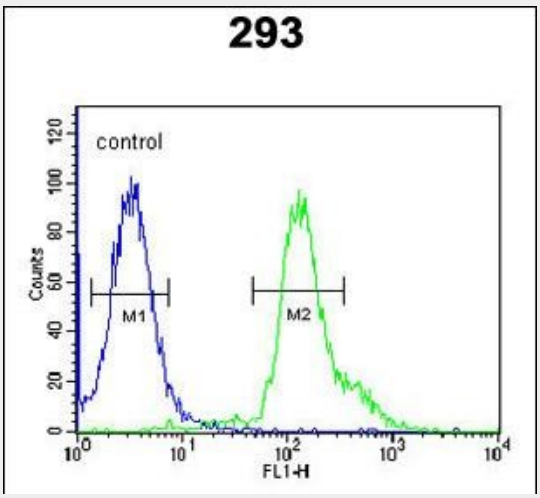
RSPO2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RSPO2 Antibody (C-term) - Protein Information

Name RSPO2

Function
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 (PubMed:21909076, PubMed:21727895, PubMed:22615920). During embryonic development, plays a crucial role in limb specification, amplifying the Wnt signaling pathway independently of LGR4-6 receptors, possibly by acting as a direct antagonistic ligand to RNF43 and ZNRF3, hence governing the number of limbs an embryo should form (PubMed:29769720).

Cellular Location
Secreted {ECO:0000250|UniProtKB:Q8BFU0}.



RSPO2 Antibody (C-term) (Cat. #AP5264b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RSPO2 Antibody (C-term) - Background

R-spondins (RSPOs), such as RSPO2, are secreted proteins that regulate beta-catenin (CTNNB1; MIM 116806) signaling.

RSPO2 Antibody (C-term) - References

Kim, K.A., et al. Cell Cycle 5(1):23-26(2006)
Kazanskaya, O., et al. Dev. Cell 7(4):525-534(2004)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

RSPO2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture