

Rabbit RSPO2 Polyclonal Antibody | anti-RSPO2 antibody

RSPO2 Antibody (C-term)

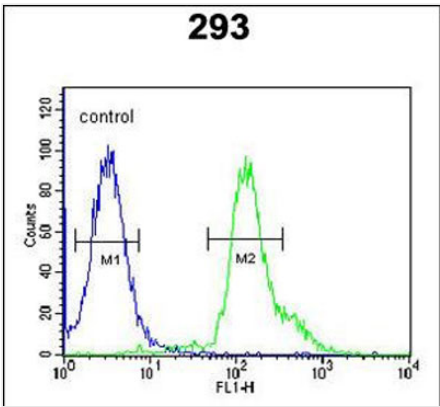
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28708	Rabbit	Human (Predicted Reactivity: Mouse)	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

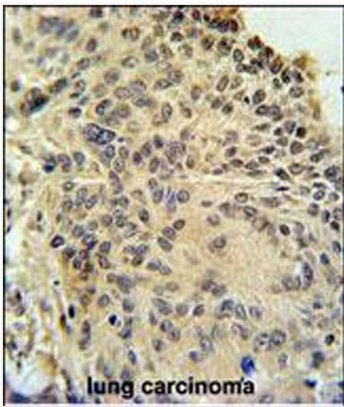
RSPO2; Polyclonal Antibody; RSPO2 Antibody (C-term); R-spondin-2; Roof plate-specific spondin-2; hRspo2; anti-RSPO2 antibody

PRODUCT SPECIFICATIONS

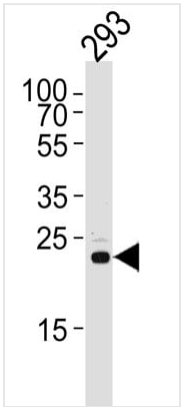
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This RSPO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 190-218 amino acids from the C-terminal region of human RSPO2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	190-218
Sequence Length	243
Applicable Applications for anti-RSPO2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50
Cellular location	Secreted {ECO:0000250 UniProtKB:Q8BFU0}.
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).
Preparation and 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.



FCM (Flow Cytometry)
RSPO2 Antibody (C-term) (AAA28708) 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.



IHC (Immunohistochemistry)
RSPO2 Antibody (C-term) (Cat. #AAA28708) 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.



WB (Western Blot)
Western blot analysis of lysate from 293 cell line, using RSPO2 Antibody (C-term). AAA28708 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.

ADDITIONAL INFORMATION

Related Product Information for anti-RSPO2 antibody	Background: R-spondins (RSPOs), such as RSPO2, are secreted proteins that regulate beta-catenin (CTNNB1; MIM 116806) signaling.
Product Categories/Family for anti-RSPO2 antibody	Developmental Biology
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	222446611
NCBI GeneID	340419
NCBI Accession #	NP_848660.3
NCBI GenBank Nucleotide #	NM_178565.4
UniProt Accession #	Q6UXX9; Q4G0U4; Q8N6X6; B3KVP0

Molecular Weight	28315
NCBI Official Full Name	R-spondin-2 isoform 1
NCBI Official Synonym Full Names	R-spondin 2
NCBI Official Symbol	RSPO2
NCBI Official Synonym Symbols	CRISTIN2
NCBI Protein Information	R-spondin-2
UniProt Protein Name	R-spondin-2
UniProt Gene Name	RSPO2
UniProt Synonym Gene Names	hRspo2
UniProt Entry Name	RSPO2_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://www.aaabiotech.com/polyclonal/rspo2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28708>