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RSPO2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP5264b

Specification

RSPO2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q6UXX9

RSPO2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 340419

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RSPO2 Antibody (C-term) Blocking Peptide - 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}.

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RSPO2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RSPO2 Antibody (C-term) Blocking Peptide - Images

RSPO2 Antibody (C-term) Blocking Peptide - Background

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

RSPO2 Antibody (C-term) Blocking Peptide - 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)