

Anti-RSPO3 Reference Antibody (rosmantuzumab)

Recombinant Antibody
Catalog # APR10411

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	Q9BXY4
Reactivity	Human, Cynomolgus
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	30929

Additional Information

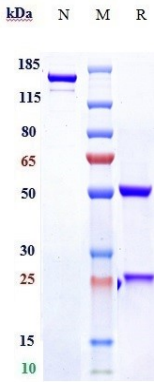
Target/Specificity	RSPO3
Endotoxin Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Protein Information

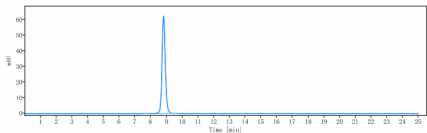
Name	RSPO3
Synonyms	PWTSR, THSD2
Function	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors, which acts as a key regulator of angiogenesis. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6 and frizzled receptors that are 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. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway (PubMed: 21727895 , PubMed: 21909076 , PubMed: 22615920). Acts as a key regulator of angiogenesis by controlling vascular stability and pruning: acts by activating the non-canonical Wnt signaling pathway in endothelial cells (By similarity) (PubMed: 21727895 , PubMed: 21909076 , PubMed: 22615920). Can also amplify Wnt signaling pathway independently of LGR4-6 receptors, possibly by acting as a direct antagonistic ligand to RNF43 and ZNRF3 (PubMed: 29769720).

Cellular Location	Secreted {ECO:0000250 UniProtKB:Q2TJ95}.
Tissue Location	Ubiquitously expressed. Expressed at higher level in placenta, small intestine, fetal thymus and lymph node (PubMed:12463421). Highly expressed in endothelial cells (PubMed:26766444).

Images



Anti-RSPO3 Reference Antibody (rosmantuzumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-RSPO3 Reference Antibody (rosmantuzumab)is more than 100% ,determined by SEC-HPLC.

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