

R-Spondin Monoclonal Antibody

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| Catalog No : | YM0566 |
| Reactivity : | Human |
| Applications : | WB;ELISA |
| Target : | R-Spondin |
| Fields : | >>Wnt signaling pathway |
| Gene Name : | RSPO1 |
| Protein Name : | R-spondin-1 |
| Human Gene Id : | 284654 |
| Human Swiss Prot No : | Q2MKA7 |
| Mouse Swiss Prot No : | Q9Z132 |
| Immunogen : | Purified recombinant fragment of R-spondin1 expressed in E. Coli. |
| Specificity : | R-Spondin Monoclonal Antibody detects endogenous levels of R-Spondin protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | Affinity purification |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 29kD |

P References :

1. Nat Genet. 2006 Nov;38(11):1304-9.
2. Hum Mutat. 2008 Feb;29(2):220-6.

Background :

This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014],

Function :

disease:Defects in RSPO1 are the cause of palmoplantar keratoderma with squamous cell carcinoma of skin and sex reversal (PKKSCC) [MIM:610644]. This recessive syndrome is characterized by XX (female to male) SRY-independent sex reversal, palmoplantar hyperkeratosis and predisposition to squamous cell carcinoma of the skin.,domain:The FU repeats are required for activation and stabilization of beta-catenin.,function:Activator of the beta-catenin signaling cascade, leading to TCF-dependent gene activation. Acts both in the canonical Wnt/beta-catenin-dependent pathway, possibly via a direct interaction with Wnt proteins, and in a Wnt-independent beta catenin pathway through a receptor signaling pathway that may not use frizzled/LRP receptors. Acts as a ligand for frizzled FZD8 and LRP6. May negatively regulate the TGF-beta pathway. Has a essential roles in ovary determination.,miscellaneous

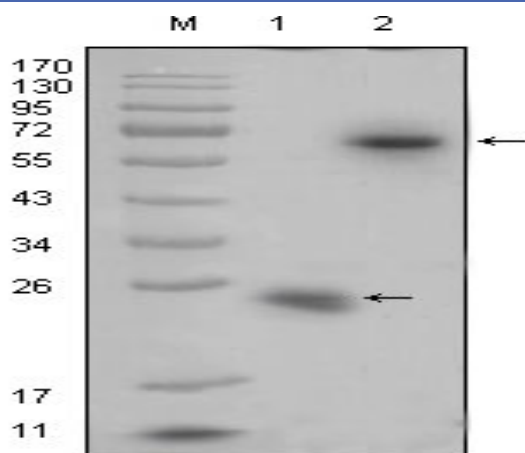
Subcellular Location :

Secreted . Nucleus . Seems to mainly localize to nucleoli. .

Expression :

Abundantly expressed in adrenal glands, ovary, testis, thyroid and trachea but not in bone marrow, spinal cord, stomach, leukocytes colon, small intestine, prostate, thymus and spleen.

Products Images



Western Blot analysis using R-Spondin Monoclonal Antibody against recombinant R-spondin1 protein (1) and R-spondin1(aa21-263)-hlgGfC transfected HEK293 cell lysate(2).