R-Spondin Monoclonal Antibody

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.

Tag : hot

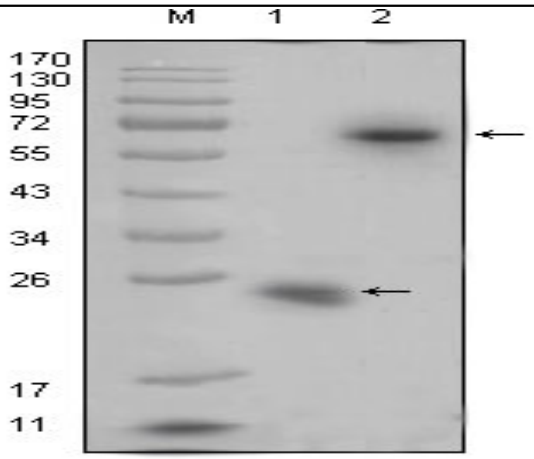
Sort : 14634

No4 : 1

Host : Mouse

Modifications : Unmodified

Products Images



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