

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse R-Spondin 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human (rh) R-Spondin 2 or rhR-Spondin 3.
Source	Monoclonal Mouse IgG _{2B} Clone # 422407
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human R-Spondin 1 Met1-Gly182 Accession # NP_775911
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RSPO-1 (roof plate-specific spondin; also R-spondin1 and cristin3) is a 39 kDa, heparin-binding member of the Cristin/R-spondin family of proteins. These molecules apparently are either retained intracellularly or secreted, where they activate the frizzled-LRP receptor pathway. Mature human RSPO-1 is 27 kDa and 243 amino acids (aa) in length. It contains a cysteine-rich furin repeat domain followed by a type I TSP domain. This form is apparently retained intracellularly. A presumably glycosylated, 30 kDa, 193 aa C-terminally truncated form is secreted and interacts with heparin. The secreted form of human RSPO-1 is 93% aa identical to secreted mouse RSPO-1.

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