

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse (rm) R-Spondin 1 in ELISA. In ELISA, no cross-reactivity with rmR-Spondin 3 and rhR-Spondin 1 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 852010
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse R-Spondin 1 Met1-Gln265 Accession # Q9Z132
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Neutralization 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-Spondin 1 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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