

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse R-Spondin 3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) RSPO-1, rmRSPO-4, recombinant human (rh) RSPO-2, or rhRSPO-3 is observed.                                                 |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 400404                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse R-Spondin 3<br>Ser21-Gly209 (Gln108Lys)<br>Accession # BAC36296                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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-3 (R-spondin 3; also Cristin-1), is a 256 aa secreted R-Spondin family member which binds LRP-6 and Fzd8 and regulates  $\beta$ -catenin signaling. R-Spondins contain two adjacent cysteine-rich furin-like domains at their amino-termini, followed by a thrombospondin (TSP-1) motif and a variable length basic C-terminal region. Two RSPO-3 splice isoforms that differ in their C-termini have been reported. Mouse RSPO-3 shares 93% and 97% aa identity with human and rat RSPO-3, respectively, over the sequence used as an immunogen.

## PRODUCT SPECIFIC NOTICES

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