

DESCRIPTION

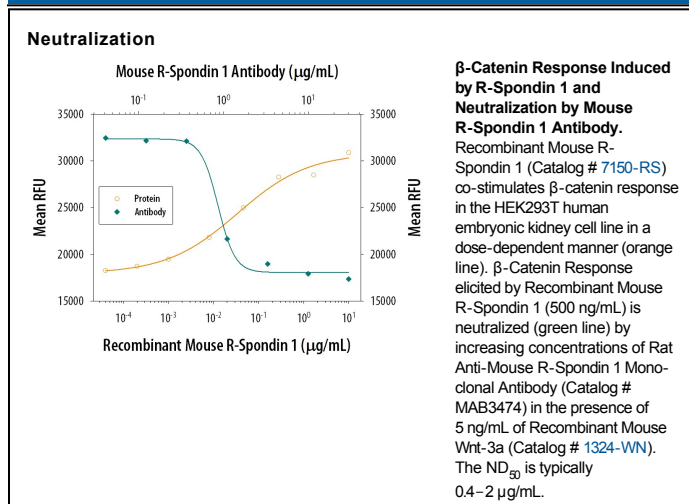
Species Reactivity	Mouse
Specificity	Detects recombinant mouse (rm) R-Spondin 1 in ELISA. In ELISA, no cross-reactivity with rmR-Spondin 3 and rhR-Spondin 1 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 852010
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse R-Spondin 1 Met1-Gln265 Accession # Q9Z132
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	Measured by its ability to neutralize R-Spondin 1-induced β-catenin response in the HEK293T human embryonic kidney cell line. The Neutralization Dose (ND ₅₀) is typically 0.4-2 µg/mL in the presence of 500 ng/mL Recombinant Mouse R-Spondin 1 and 5 ng/mL Recombinant Mouse Wnt-3a.
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DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

RSPO-1 (roof plate-specific spondin; also R-Spondin 1 and cristin3) is a 39 kDa, heparin-binding member of the Crispin/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.