

Mouse R-spondin-2 (RSPO2) ELISA Kit

Catalog No: #EK7504



Package Size: #EK7504-1 48T #EK7504-2 96T

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Description

Product Name	Mouse R-spondin-2 (RSPO2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	CRISTIN2; MGC35555; MGC43342; R-spondin family; member 2
Accession No.	Q8BFU0
Uniprot	Q8BFU0
GeneID	239405;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:78-5000 pg/mL

Sensitivity:29 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate RSPO2 in samples. An antibody specific for RSPO2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRSPO2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RSPO2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RSPO2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**R-spondins (RSPOs), such as RSPO2, are secreted proteins that regulate beta-catenin (CTNNB1) signaling. Xenopus and human RSPO2 enhanced mouse Wnt3a signaling in transfected human embryonic kidney cells. C-terminally truncated Xenopus Rspo2, but not the full-length protein, was secreted from cells and retained its activity. Mutation analysis showed that the TSP1 domain of Xenopus Rspo2 was dispensable for activity, but the furin domains were required. RT-PCR analysis showed that Xenopus embryos injected with Wnt8 or beta-catenin induced Rspo2 and Rspo3. Overexpression of Rspo2 in Xenopus activated the Wnt/beta-catenin pathway upstream of dishevelled (DVL1), interfered with Tgfb-type growth factors, and promoted myogenesis.

Note: This product is for in vitro research use only