

Human Ryanodine Receptor 1 (RYR1) ELISA Kit | RYR1 elisa kit

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CATALOG #
AAA330974

REACTIVITY
Human

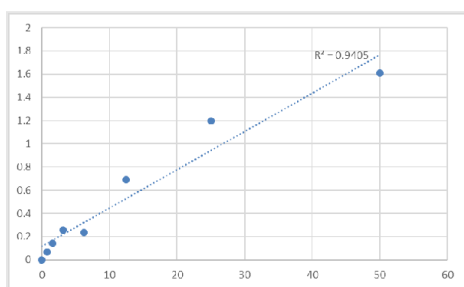
PRODUCT SYNONYMS

Ryanodine Receptor 1 (RYR1); Human Ryanodine Receptor 1 (RYR1) ELISA Kit; RYR1; CCO; MHS; MHS1; RYDR; RYR; SKRR; central core disease of muscle; ryanodine receptor type1; sarcoplasmic reticulum calcium release channel; skeletal muscle ryanodine receptor; type 1-like ryanodine recep; RYR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Ryanodine receptor 1 (RYR1) ELISA Kit has high sensitivity and excellent specificity for detection of Human RYR1. No significant cross-reactivity or interference between Human RYR1 and analogues was observed.
Sequence Length	5038
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Ryanodine receptor 1 (RYR1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RYR1 elisa kit	Description: This Human Ryanodine receptor 1 (RYR1) ELISA Kit employs a two-site sandwich ELISA to quantitate RYR1 in samples. An antibody specific for RYR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RYR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RYR1 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 RYR1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Ryanodine receptor 1 is a ryanodine receptor found in skeletal muscle. The encoded protein functions as a calcium release channel in the sarcoplasmic reticulum but also serves to connect the sarcoplasmic reticulum and transverse tubule. Mutations in this gene are associated with malignant hyperthermia susceptibility, central core disease, and minicore myopathy with external ophthalmoplegia. Alternatively spliced transcripts encoding different isoforms have been described. Communication between transverse-tubules and sarcoplasmic reticulum. Contraction of skeletal muscle is triggered by release of calcium ions from SR following depolarization of T-tubules. Skeletal muscle and brain (cerebellum and hippocampus).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	108935904
NCBI GeneID	6261
UniProt Accession #	P21817
NCBI Official Full Name	Ryanodine receptor 1
NCBI Official Synonym Full Names	ryanodine receptor 1
NCBI Official Symbol	RYR1
NCBI Official Synonym Symbols	CCO; MHS; RYR; MHS1; RYDR; SKRR; RYR-1; PPP1R137
NCBI Protein Information	ryanodine receptor 1
UniProt Protein Name	Ryanodine receptor 1
UniProt Gene Name	RYR1
UniProt Synonym Gene Names	RYDR; RYR-1; RyR1
UniProt Entry Name	RYR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ryanodine-receptor-1-ryr1/330974>