

Human Ryanodine Receptor 2 (RYR2) ELISA Kit | RYR2 elisa kit

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CATALOG #
AAA330973

REACTIVITY
Human

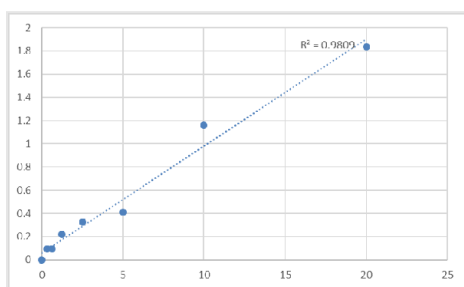
PRODUCT SYNONYMS

Ryanodine Receptor 2 (RYR2); Human Ryanodine Receptor 2 (RYR2) ELISA Kit; RYR2; RP4-626J7.1; ARVC2; ARVD2; VTSIP; cardiac muscle ryanodine receptor; cardiac muscle ryanodine receptor-calcium release channel; RYR2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Ryanodine receptor 2 (RYR2) ELISA Kit has high sensitivity and excellent specificity for detection of Human RYR2. No significant cross-reactivity or interference between Human RYR2 and analogues was observed.
Sequence Length	4967
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 2 (RYR2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RYR2 elisa kit	Description: This Human Ryanodine receptor 2 (RYR2) ELISA Kit employs a two-site sandwich ELISA to quantitate RYR2 in samples. An antibody specific for RYR2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RYR2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RYR2 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 RYR2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Ryanodine receptors (RyRs) form a class of intracellular calcium channels in various forms of excitable animal tissue like muscles and neurons. It is the major cellular mediator of calcium-induced calcium release (CICR) in animal cells. Ryanodine receptor 2 is a ryanodine receptor found in cardiac muscle sarcoplasmic reticulum. The encoded protein is one of the components of a calcium channel, composed of a tetramer of the ryanodine receptor proteins and a tetramer of FK506 binding protein 1B proteins, that supplies calcium to cardiac muscle. Mutations in this gene are associated with catecholaminergic polymorphic ventricular tachycardia, stress-induced polymorphic ventricular tachycardia, and arrhythmogenic right ventricular dysplasia.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	112799847
NCBI GeneID	6262
NCBI Accession #	NP_001026.2
NCBI GenBank Nucleotide #	NP_001026.2
UniProt Accession #	Q92736
NCBI Official Full Name	ryanodine receptor 2
NCBI Official Synonym Full Names	ryanodine receptor 2
NCBI Official Symbol	RYR2
NCBI Official Synonym Symbols	RyR; ARVC2; ARVD2; RYR-2; VTSIP
NCBI Protein Information	ryanodine receptor 2
UniProt Protein Name	Ryanodine receptor 2
UniProt Gene Name	RYR2
UniProt Synonym Gene Names	RYR-2; RyR2; hRYR-2
UniProt Entry Name	RYR2_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.