

Mouse Ryanodine Receptor 2, Cardiac (RYR2) ELISA Kit | RYR2 elisa kit

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CATALOG #
AAA189798

REACTIVITY
Mouse

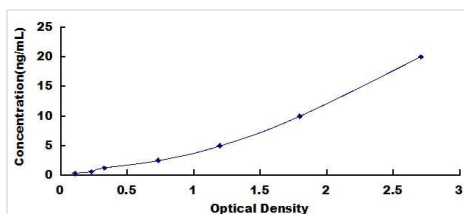
PRODUCT SYNONYMS

Ryanodine Receptor 2; Cardiac (RYR2); Mouse Ryanodine Receptor 2; Cardiac (RYR2) ELISA Kit; RYR-2; ARVD2; ARVC2; VTSIP; Arrhythmogenic Right Ventricular Dysplasia 2; Cardiac muscle ryanodine receptor-calcium release channel; RYR2/Ryanodine Receptor 2; Cardiac; RYR2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of RYR2. No significant cross-reactivity or interference between RYR2 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.113ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level RYR2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level RYR2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for RYR2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to RYR2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to RYR2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain RYR2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of RYR2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of RYR2 in mouse tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for RYR2 elisa kit	Neuro science

NCBI AND UNIPROT INFORMATION

NCBI GI #	378523663
NCBI GeneID	20191
UniProt Accession #	E9Q401; O70181; Q62174; Q62197; Q9ERN6
Molecular Weight	4966
NCBI Official Full Name	Ryanodine receptor 2
NCBI Official Synonym Full Names	ryanodine receptor 2, cardiac
NCBI Official Symbol	Ryr2
NCBI Official Synonym Symbols	RYR-2; 9330127I20Rik
NCBI Protein Information	ryanodine receptor 2; calcium release channel; ryanodine receptor type 2; type 2 ryanodine receptor; cardiac muscle ryanodine receptor; cardiac muscle ryanodine receptor-calcium release channel
UniProt Protein Name	Ryanodine receptor 2
UniProt Gene Name	Ryr2
UniProt Synonym Gene Names	RYR-2; RyR2
UniProt Entry Name	RYR2_MOUSE

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/mouse-elisa-kits/ryanodine-receptor-2-cardiac-ryr2/189798>