Human Anti-ryanodine receptor (RyR) calcium release channel antibody ELISA Kit

Catalog No: #EK11773

Package Size: #EK11773-1 48T #EK11773-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Anti-ryanodine receptor (RyR) calcium release channel antibody ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Storage	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. 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).

Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.27 ng/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:Competitive ELISATest principle:This assay employs the competitive enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Anti-ryanodine receptor (RyR) calcium release channel antibody. Standards or samples are then added to the appropriate microtiter plate wells with a Horseradish Peroxidase (HRP)-conjugated Anti-ryanodine receptor (RyR) calcium release channel antibody and incubated. The competitive inhibition reaction is launched between with HRP labeled Anti-ryanodine receptor (RyR) calcium release channel antibody and unlabeled Anti-ryanodine receptor (RyR) calcium release channel antibody with the antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of Anti-ryanodine receptor (RyR) calcium release channel antibody in the sample. The color development is stopped and the intensity of the color is measured.Product Overview: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).

Note: This product is for in vitro research use only