Product Name: RyR-2 Rabbit Polyclonal Antibody

Catalog #: APRab17457



Summary

RyR-2 Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated Modification Unmodified

Isotype lgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Immunogen

Gene Name RYR2

RYR2; Ryanodine receptor 2; RYR-2; RyR2; hRYR-2; Cardiac muscle ryanodine receptor; **Alternative Names**

Cardiac muscle ryanodine receptor-calcium release channel; Type 2 ryanodine receptor

Gene ID 6262.0

Q92736.The antiserum was produced against synthesized peptide derived from human SwissProt ID

RyR2. AA range:2774-2823

Application

Dilution Ratio

WB 1:500-2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:5000.Not yet

tested in other applications.

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Molecular Weight 200-300kDa

Background

This gene encodes 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 stressinduced polymorphic ventricular tachycardia and arrhythmogenic right ventricular dysplasia. [provided by RefSeq, Jul 2008], developmental stage: Expressed in myometrium during pregnancy., disease: Defects in RYR2 are the cause of catecholaminergic polymorphic ventricular tachycardia type 1 (CPVT1) [MIM:604772]; also known as stress-induced polymorphic ventricular tachycardia (VTSIP). CPVT1 is an autosomal dominant form of arrhythmogenic disorder characterized by stress-induced, bidirectional ventricular tachycardia that may degenerate into cardiac arrest and cause sudden death., disease: Defects in RYR2 are the cause of familial arrhythmogenic right ventricular dysplasia 2 (ARVD2) [MIM:600996]; also known as arrhythmogenic right ventricular cardiomyopathy 2 (ARVC2). ARVD is an autosomal dominant disease characterized by partial degeneration of the myocardium of the right ventricle, electrical instability, and sudden death. It is clinically defined by electrocardiographic and angiographic criteria; pathologic findings, replacement of ventricular myocardium with fatty and fibrous elements, preferentially involve the right ventricular free wall., function: Communication between transverse-tubules and sarcoplasmic reticulum. Contraction of cardiac muscle is triggered by release of calcium ions from SR following depolarization of T-tubules., induction: By TGFbeta, miscellaneous: Ryanodine is an alkaloid that binds to the Ca-release channel in junctional SR and modulates its activity, miscellaneous: The calcium release channel activity resides in the C-terminal region while the remaining part of the protein constitutes the 'foot' structure spanning the junctional gap between the SR and the T-tubule. It is possible that the foot structure interacts with the cytoplasmic region of the dihydropyridine receptor., miscellaneous: The calcium release channel is modulated by calcium ions, magnesium ions, ATP and calmodulin.,online information:Ryanodine receptor entry, online information: RYR2 entry, similarity: Belongs to the ryanodine receptor family., similarity: Contains 2 EF-hand domains., similarity: Contains 3 B30.2/SPRY domains., similarity: Contains 5 MIR domains., subunit: Homotetramer ., tissue specificity: Heart muscle, brain (cerebellum and hippocampus) and placenta.

Research Area

Calcium; Cardiac muscle contraction; Hypertrophic cardiomyopathy (HCM); Arrhythmogenic right ventricular cardiomyopathy (ARVC); Dilated cardiomyopathy;

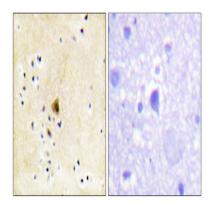
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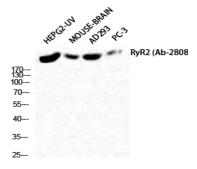
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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using RyR2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of HepG2-UV MOUSE-BRAIN AD293 PC-3 cells using RyR-2 Polyclonal Antibody diluted at 1: 2000

Note

For research use only.