

## RYR2

**Reactivity:**Human

**Tested applications:**WB

**Recommended Dilution:**WB 1:500 - 1:2000

**Calculated MW:**565kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human RYR2

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

ARVC2; ARVD2; VTSIP;RYR2

**Catalog #:**A0298

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**6262

**Isotype:**IgG

**Swiss Prot:**Q92736

**Purity:**Affinity purification

For research use only.

**Background:**

RYR2 belongs to the ryanodine receptor family. RYR2 provides 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. Defects in RYR2 are the cause of familial arrhythmogenic right ventricular dysplasia type 2 (ARVD2) which known as arrhythmogenic right ventricular cardiomyopathy 2 (ARVC2). Defects in RYR2 are the cause of catecholaminergic polymorphic ventricular tachycardia type 1 (CPVT1) which known as stress-induced polymorphic ventricular tachycardia (VTSIP). 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 stress-induced polymorphic ventricular tachycardia and arrhythmogenic right ventricular dysplasia. [provided by RefSeq, Jul 2008]

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