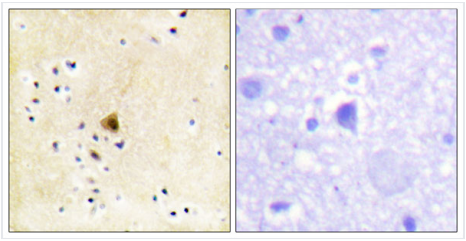
RyR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RyR2, Polyclonal Antibody
Full Product Name	RyR2 Antibody
Product Gene Name	anti-RyR2 antibody
Product Synonym Names	cardiac muscle ryanodine receptor-calcium release channel; cardiac muscle-type ryanodine receptor; ryanodine receptor 2; RYR-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	RyR2 Antibody detects endogenous levels of total RyR2 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	564 kDa
OMIM	X98330 mRNA
3D Structure	ModBase 3D Structure for Q92736
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human RyR2.
Immunogen Range	2774-2823
Applications Tested/Suitable for anti-RyR2 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-RyR2 antibody	IHC: 1:50~1:100 ELISA: 1:1000
Related Product Information for anti-RyR2 antibody	MBS9503656 is an antibody targeting RyR2. Also known as RyR2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-RyR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



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

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RyR2. It may not necessarily be applicable to this product.

NCBI GI #	112799847
NCBI GeneID	6262
NCBI Accession #	NP_001026.2
UniProt Primary Accession #	Q92736
UniProt Secondary Accession #	Q15411; Q546N8; Q5T3P2
UniProt Related Accession #	Q92736
GenBank Nucleotide #	NM_001035.2
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
UniProt Protein Name	Ryanodine receptor 2
UniProt Synonym Protein Names	Cardiac muscle ryanodine receptor; Cardiac muscle ryanodine receptor-calcium release channel; Type 2 ryanodine receptor
Protein Family	Ryanodine receptor
UniProt Gene Name	RYR2
UniProt Synonym Gene Names	RYR-2; RyR2; hRYR-2
NCBI Protein Information	ryanodine receptor 2
NCBI Summary for RyR2	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]
UniProt Comments for RyR2	Calcium channel that mediates the release of Ca2+ from the sarcoplasmic reticulum into the cytoplasm and thereby plays a key role in triggering cardiac muscle contraction. Aberrant channel activation can lead to cardiac arrhythmia. In cardiac myocytes, calcium release is triggered by increased Ca2+ levels due to activation of the L-type calcium channel CACNA1C. The calcium channel activity is modulated by formation of heterotetramers with RYR3. Required for cellular calcium ion homeostasis. Required for embryonic heart development.
Research Articles on RyR2	**1.** Five of the 19 patients (26.3%) had either a pathogenic variant or a likely pathogenic variant in MYBPC3 (n=1), MYH7 (n=1), RYR2 (n=2), or TNNT2 (n=1). All five variants were missense variants that have been reported previously in patients with channelopathies or cardiomyopathies

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