RyR-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RyR-2, Polyclonal Antibody
Full Product Name	RyR-2 (phospho Ser2808) Polyclonal Antibody
Product Gene Name	anti-RyR-2 antibody
Product Synonym Names	RYR2; Ryanodine receptor 2; RYR-2; RyR2; hRYR-2; Cardiac muscle ryanodine receptor; Cardiac muscle ryanodine receptor-calcium release channel; Type 2 ryanodine receptor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	Phospho-RyR-2 (S2808) Polyclonal Antibody detects endogenous levels of RyR-2 protein only when phosphorylated at S2808.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	564,567 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (237205702..237997288). Location: 1q43
OMIM	180902
3D Structure	ModBase 3D Structure for Q92736
Immunogen	The antiserum was produced against synthesized peptide derived from human RyR2 around the phosphorylation site of Ser2808. AA range:2774-2823
Product Categories/Family for anti-RyR-2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RyR-2 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunohistochemistry-Paraffin (IHC-P)(section), ELISA (EIA)
Application Notes for anti-RyR-2 antibody	IHC: 1:100-1:300 ELISA: 1:10000
Related Product Information for anti-RyR-2 antibody	ryanodine receptor 2 (RYR2) Homo sapiens 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]
Other Notes	Small volumes of anti-RyR-2 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.
Searchable Terms for RyR-2 purchase	MBS8585745 is an antibody targeting RyR-2. Also known as RyR-2 (phospho Ser2808) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RyR-2. 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 (cardiac)
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
UniProt Entry Name	RYR2_HUMAN
NCBI Protein Information	ryanodine receptor 2; type 2 ryanodine receptor; islet-type ryanodine receptor; kidney-type ryanodine receptor; cardiac-type ryanodine receptor; cardiac muscle ryanodine receptor-calcium release channel
NCBI Summary for RyR-2	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 RyR-2	RYR2: ryanodine receptor calcium release channel. Regulates 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. Phosphorylation by PKA dissociates FKBP12.6 from RYR2. Two splice isoforms have been described. Protein type: Transporter, ion channel; Membrane protein, integral; Membrane protein, multi-pass; Channel, ligand-gated; Transporter Chromosomal Location of Human Ortholog: 1q43 Cellular Component: sarcoplasmic reticulum membrane; protein complex; smooth endoplasmic reticulum; membrane; sarcoplasmic reticulum; plasma membrane; Z disc Molecular Function: calmodulin binding; calcium-induced calcium release activity; identical protein binding; protein binding; enzyme binding; protein self-association; calcium-release channel activity; calcium channel activity; calcium ion binding; intracellular ligand-gated calcium channel activity; ryanodine-sensitive calcium-release channel activity Biological Process: positive regulation of sequestering of calcium ion; cytosolic calcium ion homeostasis; regulation of heart rate; calcium-mediated signaling; positive regulation of heart rate; response to redox state; Wnt receptor signaling pathway through beta-catenin; release of sequestered calcium ion by sarcoplasmic reticulum into cytosol; response to caffeine; BMP signaling pathway; cellular calcium ion homeostasis; release of sequestered calcium ion into cytosol; calcium ion transport; response to hypoxia; detection of calcium ion; transmembrane transport; cardiac muscle contraction Disease: Ventricular Tachycardia, Catecholaminergic Polymorphic, 1, With Or Without Atrial Dysfunction And/or Dilated Cardiomyopathy; Arrhythmogenic Right Ventricular Dysplasia, Familial, 2
Research Articles on RyR-2	**1.** The cardiac ryanodine receptor gene contains most of the catecholaminergic polymorphic ventricular tachycardia mutations.
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