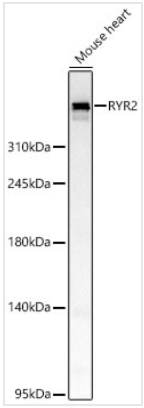
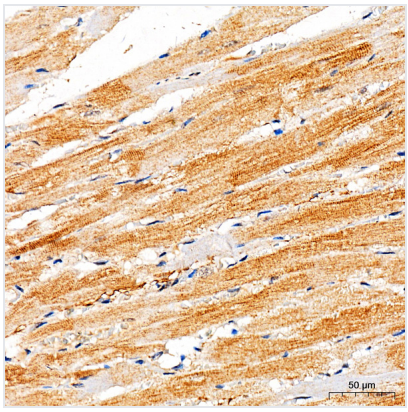
RYR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

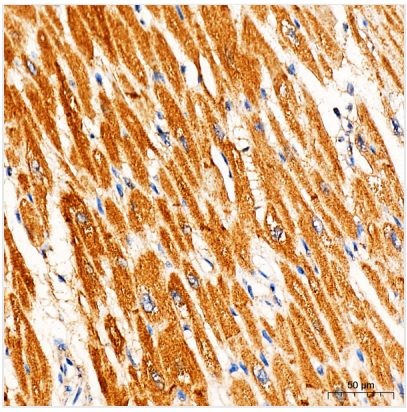
Product Name	RYR2, Polyclonal Antibody
Full Product Name	RYR2 Rabbit pAb
Product Gene Name	anti-RYR2 antibody
Product Synonym Names	RyR; ARVC2; ARVD2; RYR-2; VTSIP; VACRDS
Immunogen Sequence	ADDRDDYDFL MQTSTYYYSV RIFPGQEPAN VWVGWITSDF HQYDTGFDLD RVRTVTVTLG DEKGKVHESI KRSNCYMVCA GESMSPGQGR NNNGLEIGCV
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 565kDa Observed MW: 565kDa
OMIM	180902
3D Structure	ModBase 3D Structure for Q92736
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1411-1510 of human RYR2 (NP_001026.2).
Product Categories/Family for anti-RYR2 antibody	Cancer; Signal Transduction; Endocrine Metabolism; Neuroscience; Calcium Signaling; Cardiovascular; Hypoxia; Heart; Contractility; Cardiac arrhythmias; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RYR2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-RYR2 antibody	WB: 1:500-1:1000 IHC-P: 1:100-1:500 IF/ICC: 1:50-1:200 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-RYR2 antibody	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.
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.
Searchable Terms for RYR2 purchase	MBS9148715 is an antibody targeting RYR2. Also known as RYR2 Rabbit pAb. Reactive in Human. Host: Rabbit.



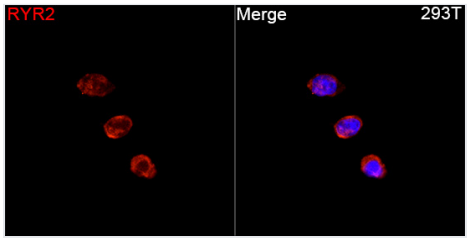
Western Blot (WB) of anti-RYR2 antibody
Western blot analysis of lysates from Mouse heart using RYR2 Rabbit pAb (MBS9148715) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time:90s.



Immunohistochemistry (IHC) of anti-RYR2 antibody
Immunohistochemistry analysis of paraffin-embedded Rat heart tissue using RYR2 Rabbit pAb (MBS9148715) at a dilution of 1:300 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-RYR2 antibody
Immunohistochemistry analysis of paraffin-embedded Human heart tissue using RYR2 Rabbit pAb (MBS9148715) at a dilution of 1:300 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence (IF) of anti-RYR2 antibody
Immunofluorescence analysis of 293T cells using RYR2 Rabbit pAb (MBS9148715) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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
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
UniProt Comments for RYR2	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
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