Datasheet for ABIN7043605

anti-RYR2 antibody (Intracellular, N-Term)

3 Images

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Overview

Quantity:	25 µL
Target:	RYR2
Binding Specificity:	AA 1489-1502, Intracellular, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RYR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CAGESMSPGQGRNN, corresponding to amino acid residues 1489-1502 of human RyR2
Isotype:	IgG
Characteristics:	Anti-Ryanodine Receptor 2 Antibody (ABIN7043605, ABIN7045213 and ABIN7045214)) is a highly specific antibody directed against an epitope of human RyR2. The antibody can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize RyR2 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

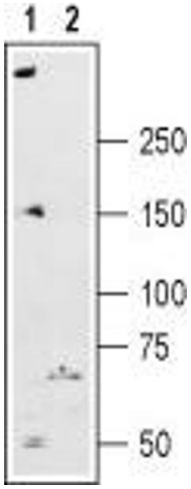
Target:	RYR2
Alternative Name:	Ryanodine Receptor 2 (RYR2 Products)
Background:	Alternative names: Ryanodine Receptor 2, RyR2, Cardiac muscle ryanodine receptor
Gene ID:	6262
NCBI Accession:	NM_001035
UniProt:	Q92736
Pathways:	Myometrial Relaxation and Contraction

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

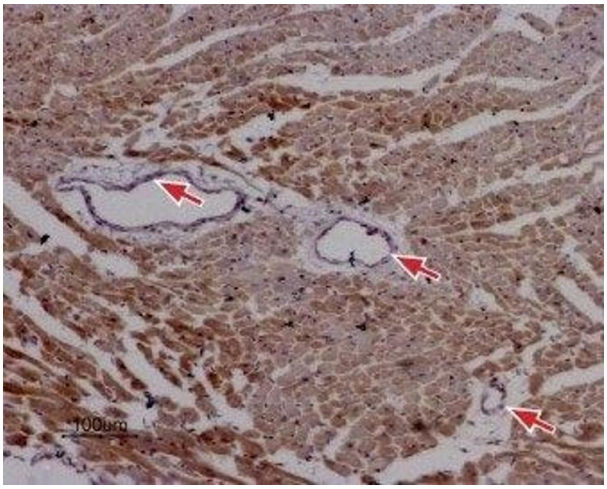
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



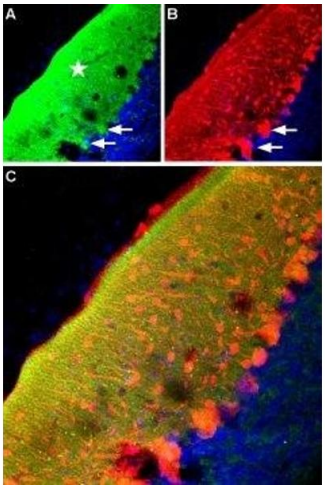
Western Blotting

Image 1. Western blot analysis of rat heart membranes: - 1. Anti-Ryanodine Receptor 2 Antibody (ABIN7043605, ABIN7045213 and ABIN7045214), (1:200).2. Anti-Ryanodine Receptor 2 Antibody, preincubated with Ryanodine Receptor 2 Blocking Peptide (#BLP-RR002).



Immunohistochemistry

Image 2. Expression of RyR2 in rat cardiac muscle - Immunohistochemical staining of paraffin-embedded sections of rat myocardium using Anti-Ryanodine Receptor 2 Antibody (ABIN7043605, ABIN7045213 and ABIN7045214), (1:50). Staining is specific for cardiomyocytes while smooth muscles cells in the artery walls are negative (red arrows). Hematoxilin is used as the counterstain.



Immunohistochemistry

Image 3. Expression of RyR2 in mouse cerebellum - Immunohistochemical staining of mouse cerebellum frozen sections with Anti-Ryanodine Receptor 2 Antibody (ABIN7043605, ABIN7045213 and ABIN7045214), (1:100), (green fluorescence). A. The highest expression of RyR2 is in the molecular layer (asterisk) but there is also some expression in the soma of Purkinje cells (arrows). B. In the same section, there is staining for parvalbumin (red), a marker for Purkinje cells. C. Merged image of panels A and B demonstrates that RyR2 is localized both in the area surrounding the dendritic tree and in the soma of Purkinje cells. DAPI is used as the counterstain (blue).