Datasheet for ABIN7043604

# anti-RYR1 antibody (Intracellular, N-Term)

3 Images

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## Overview

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|---|---|
| Quantity: | 50 µL |
| Target: | RYR1 |
| Binding Specificity: | AA 1371-1386, Intracellular, N-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This RYR1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

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| Immunogen: | Immunogen: Synthetic peptide<br>Immunogen Sequence: (C)RAENEKDATTEKNKKR, corresponding to amino acid residues 1371-1386 of human RyR1 |
| Isotype: | IgG |
| Characteristics: | Anti-Ryanodine Receptor 1 Antibody (ABIN7043604, ABIN7045211 and ABIN7045212)) is a highly specific antibody directed against an epitope of human RyR1. The antibody can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize RyR1 from human, rat, and mouse samples. |
| Purification: | Affinity purified on immobilized antigen. |

 

## Target Details

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| Target: | RYR1 |
| Alternative Name: | Ryanodine Receptor 1 (RYR1 Products) |
| Background: | Alternative names: Ryanodine Receptor 1, RyR1, Skeletal muscle-type ryanodine receptor |
| Gene ID: | 6261 |
| NCBI Accession: | NM_000540 |
| UniProt: | P21817 |
| Pathways: | Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development |

## Application Details

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

## Handling

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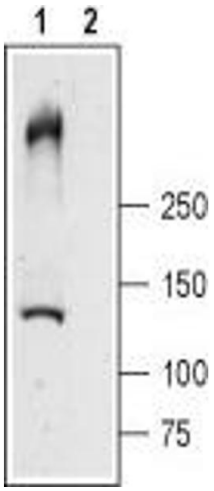
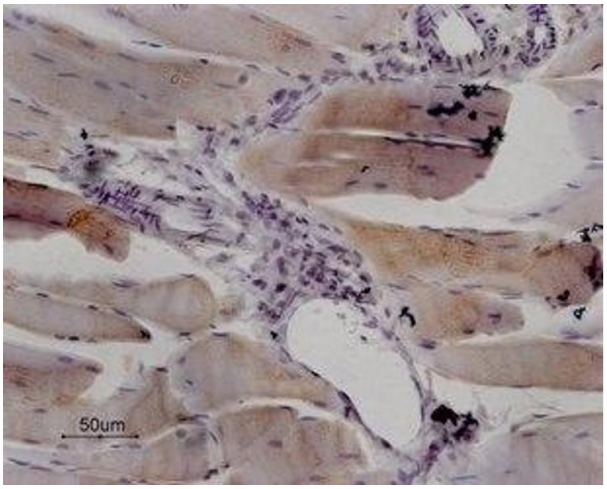
| Format: | Lyophilized |
| Reconstitution: | 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size. |
| Concentration: | 0.8 mg/mL |
| Buffer: | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide. |
| Preservative: | Sodium 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.<br>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). |



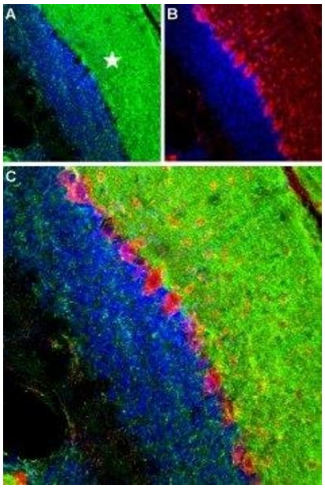

## Western Blotting

**Image 1.** Western blot analysis of rat skeletal muscle lysates: - 1. Anti-Ryanodine Receptor 1 Antibody (ABIN7043604, ABIN7045211 and ABIN7045212), (1:200). 2. Anti-Ryanodine Receptor 1 Antibody, preincubated with Ryanodine Receptor 1 Blocking Peptide (#BLP-RR001).




## Immunohistochemistry

**Image 2.** Expression of RyR1 in rat skeletal muscle - Immunohistochemical staining of paraffin embedded sections of rat quadriceps using Anti-Ryanodine Receptor 1 Antibody (ABIN7043604, ABIN7045211 and ABIN7045212), (1:100). RyR1 is expressed in fibers of striate muscle. Note that smooth muscle in the arterial walls is negative as well as the surrounding connective tissue. Hematoxilin is used as the counterstain.




## Immunohistochemistry

**Image 3.** Expression of RyR1 in mouse cerebellum - Immunohistochemical staining of mouse cerebellum frozen sections using Anti-Ryanodine Receptor 1 Antibody (ABIN7043604, ABIN7045211 and ABIN7045212), (1:100), (green). A. The highest expression of RyR1 is in the molecular layer (asterisk). B. In the same section, there is staining for parvalbumin (red), a marker of Purkinje cells. C. Merged image of panels A and B demonstrates that RyR1 is localized surrounding the dendritic tree of Purkinje cells. DAPI is used as the counterstain.