Datasheet for ABIN2483163

# anti-KCNQ1 antibody (AA 2-101) (Alkaline Phosphatase (AP))

5 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | KCNQ1 |
| Binding Specificity: | AA 2-101 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This KCNQ1 antibody is conjugated to Alkaline Phosphatase (AP) |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA) |

## Product Details

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|---|---|
| Immunogen: | Fusion protein amino acids 2-101 of human KCNQ1 |
| Clone: | N37A-10 (Formerly S37A-10) |
| Isotype: | IgG1 |
| Specificity: | Detects ~75 kDa. |
| Cross-Reactivity: | Hamster, Human, Mouse, Rat |
| Purification: | Protein G Purified |

## Target Details

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|---|---|
| Target: | KCNQ1 |

## Target Details

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|---|---|
| Alternative Name: | KCNQ1 (KCNQ1 Products) |
| Background: | Kv7.1 (KvLQT1) is a potassium channel protein coded for by the gene KCNQ1. Kv7.1 is present in the cell membranes of cardiac muscle tissue and in inner ear neurons (1) among other tissues. In the cardiac cells, Kv7.1 mediates the IKs (or slow delayed rectifying K+) current that contributes to the repolarization of the cell, terminating the cardiac action potential and thereby the heart's contraction (2, 3). |
| Gene ID: | 3784 |
| NCBI Accession: | NP_000209 |
| UniProt: | P51787 |
| Pathways: | Negative Regulation of Hormone Secretion, Sensory Perception of Sound |

## Application Details

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| Application Notes: | • WB (1:1000)<br>• IHC (1:1000)<br>• ICC/IF (1:100)<br>• optimal dilutions for assays should be determined by the user. |
| Comment: | 1 µg/ml of ABIN2483163 was sufficient for detection of KCNQ1 in 10 µg of COS-1 cell lysate transiently expressing KCNQ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |
| Restrictions: | For Research Use only |

## Handling

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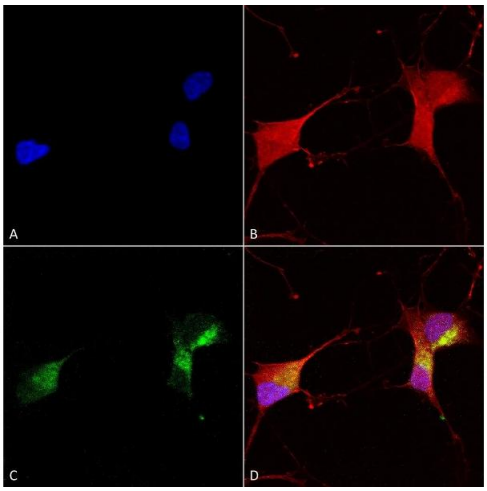
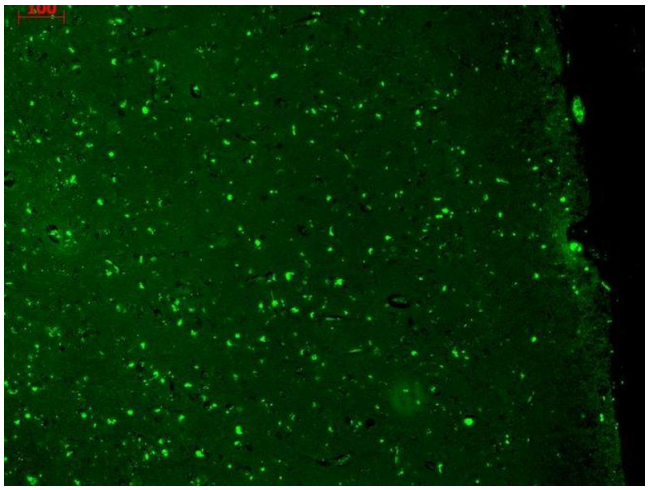
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Conjugated antibodies should be stored at 4°C |



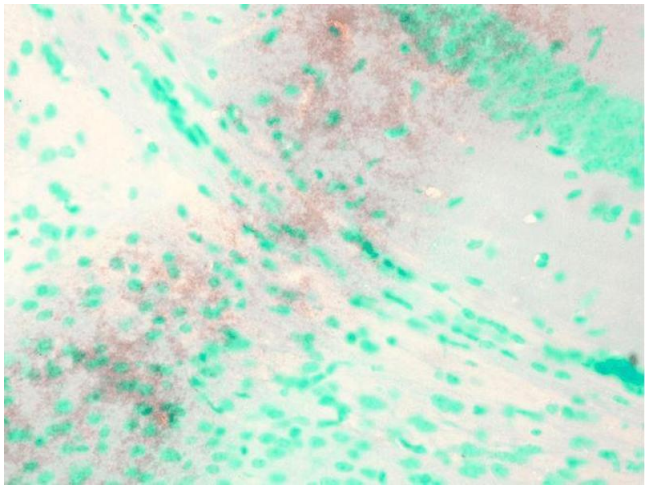

## Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone N37A/10 (ABIN2483163). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody (ABIN2483163) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) KCNQ1 Antibody (D) Composite.



## Immunohistochemistry

**Image 2.** Immunohistochemistry analysis using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 . Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



## Immunohistochemistry

**Image 3.** Immunohistochemistry analysis using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 . Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.

## Images

Please check the product details page for more images. Overall 5 images are available for ABIN2483163.