# KCNQ1 Polyclonal Antibody

**Catalog Number:E-AB-60659**

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

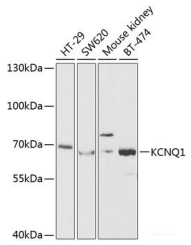
## Description

| | |
|---|---|
| **Reactivity** | Human,Mouse,Rat |
| **Immunogen** | Recombinant fusion protein of human KCNQ1 (NP_861463.1). |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Purification** | Affinity purification |
| **Conjugation** | Unconjugated |
| **Formulation** | PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

## Applications Recommended Dilution

| | |
|---|---|
| **WB** | 1:500-1:2000 |

## Data




Western blot analysis of extracts of various cell lines using KCNQ1 Polyclonal Antibody at dilution of 1:1000.

**Observed Mw:70kDa**

**Calculated Mw:61kDa/74kDa**

## Preparation & Storage

| | |
|---|---|
| **Storage** | Store at -20°C. Avoid freeze / thaw cycles. |

## Background

This gene encodes a voltage-gated potassium channel required for repolarization phase of the cardiac action potential. This protein can form heteromultimers with two other potassium channel proteins, KCNE1 and KCNE3. Mutations in this gene are associated with hereditary long QT syndrome 1 (also known as Romano-Ward syndrome), Jervell and Lange-Nielsen syndrome, and familial atrial fibrillation. This gene exhibits tissue-specific imprinting, with preferential expression from the maternal allele in some tissues, and biallelic expression in others. This gene is located in a region of chromosome 11 amongst other imprinted genes that are associated with Beckwith-Wiedemann syndrome (BWS), and itself has been shown to be disrupted by chromosomal rearrangements in patients with BWS. Alternatively spliced transcript variants have been found for this gene.

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