

Datasheet for ABIN3043268  
**anti-KCND1 antibody (AA 442-647)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µg
Target:	KCND1 (Kcnd1)
Binding Specificity:	AA 442-647
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCND1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 1(KCND1) detection. Tested with WB in Human,Mouse.
Immunogen:	E.coli-derived human KCND1 recombinant protein (Position: T442-L647). Human KCND1 shares 90% amino acid (aa) sequence identity with mouse KCND1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 1(KCND1) detection. Tested with WB in Human,Mouse.</p> <p>Gene Name: potassium voltage-gated channel, Shal-related subfamily, member 1</p> <p>Protein Name: Potassium voltage-gated channel subfamily D member 1</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	KCND1 (Kcnd1)
Alternative Name:	KCND1 ( <a href="#">Kcnd1 Products</a> )
Background:	<p>Potassium voltage-gated channel, Shal-related subfamily, member 1 (KCND1), also known as Kv4.1, is a human gene. It is mapped to Xp11.23. KCND1 encodes a member of the potassium channel, voltage-gated, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. The diverse functions of Voltage-gated potassium (Kv) channels include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. In addition to that, KCND1 is expressed at moderate levels in all tissues analyzed, with lower levels in skeletal muscle.</p> <p>Synonyms: Kcnd1 antibody KCND1_HUMAN antibody Kv4.1 antibody mShal antibody OTTHUMP00000025805 antibody OTTHUMP00000025806 antibody Potassium voltage gated channel Shal related subfamily member 1 antibody Potassium voltage gated channel subfamily D member 1 antibody Potassium voltage-gated channel subfamily D member 1 antibody Shal type potassium channel antibody Voltage gated potassium channel Kv4.1 antibody Voltage gated potassium channel subunit Kv4.1 antibody Voltage-gated potassium channel subunit Kv4.1 antibody</p>
Gene ID:	3750

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, The detection limit for KCND1 is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

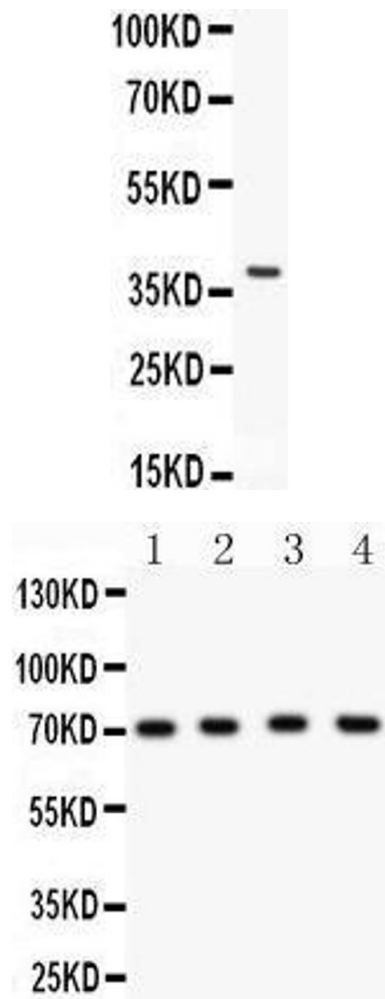
## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

## Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



### Western Blotting

**Image 1.** Anti- KCND1 Picoband antibody, Western blotting  
All lanes: Anti KCND1 at 0.5ug/ml WB: Recombinant Human KCND1 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

### Western Blotting

**Image 2.** Anti- KCND1 Picoband antibody, Western blotting  
All lanes: Anti KCND1 at 0.5ug/ml Lane 1: Mouse Brain Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Predicted bind size: 71KD Observed bind size: 71KD