

Datasheet for ABIN3043270  
**anti-KCND3 antibody (AA 1-177)**



[Go to Product page](#)

1 Image

## Overview

Quantity:	100 µg
Target:	KCND3
Binding Specificity:	AA 1-177
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCND3 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 3(KCND3) detection. Tested with WB in Human,Mouse.
Immunogen:	E.coli-derived human Kv4.3 recombinant protein (Position: M1-H177). Human Kv4.3 shares 100% and 99% amino acid (aa) sequences identity with mouse and rat Kv4.3, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: human</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 3(KCND3) detection. Tested with WB in Human,Mouse.

## Product Details

Gene Name: potassium voltage-gated channel, Shal-related subfamily, member 3  
Protein Name: Potassium voltage-gated channel subfamily D member 3

Purification: Immunogen affinity purified.

## Target Details

Target:	KCND3
Alternative Name:	KCND3 ( <a href="#">KCND3 Products</a> )
Background:	<p>Potassium voltage-gated channel subfamily D member 3, also known as Kv4.3, is a protein that in humans is encoded by the KCND3 gene. KCND3 is a member of the potassium channel, voltage-gated, shal-related subfamily. Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. It is mapped to 1p13.2. KCND3 is important in membrane repolarization in excitable cells. It contributes to the cardiac transient outward potassium current (Ito1), the main contributing current to the repolarizing phase 1 of the cardiac action potential.</p> <p>Synonyms: KCND 3 antibody KCND 3L antibody KCND 3S antibody Kcnd3 antibody KCND3_HUMAN antibody KCND3L antibody KCND3S antibody KSHIVB antibody Kv 4.3 antibody MGC14203 antibody MGC142037 antibody OTTHUMP00000063948 antibody Potassium ioinic channel Kv4.3 antibody Potassium voltage gated channel Shal related subfamily member 3 antibody Potassium voltage gated channel subfamily D member 3 antibody Potassium voltage-gated channel subfamily D member 3 antibody Sha1 related potassium channel Kv4.3 antibody Voltage gated K+ channel antibody Voltage gated potassium channel Kv4.3 antibody Voltage gated potassium channel subunit Kv4.3 antibody Voltage-gated potassium channel subunit Kv4.3 antibody</p>
Gene ID:	3752

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Predicted Species: Human, The detection limit for Kv4.3 is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be</p>
--------------------	--

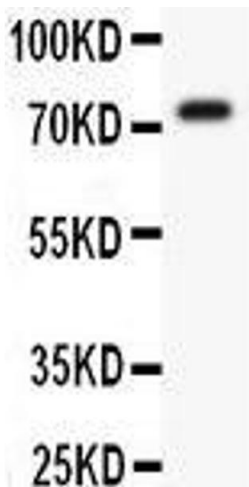
## Application Details

	fit for the product based on sequence similarities Other applications have not been tested. Optimal dilutions should be determined by end users.
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
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- Kv4.3 antibody, Western blotting All lanes:  
Anti Kv4.3 at 0.5ug/ml WB: Mouse Brain Tissue Lysate at  
50ug Predicted bind size: 73KD Observed bind size: 73KD