

Datasheet for ABIN2776165  
**anti-KCNQ4 antibody (Middle Region)**



[Go to Product page](#)

2 Images

## Overview

Quantity:	100 µL
Target:	KCNQ4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ4 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCNQ4
Sequence:	SSRMGIKDRI RMGSSQRRGTG PSKQHLAPPT MPTSPSSEQV GEATSPTKVQ
Predicted Reactivity:	Cow: 93%, Dog: 92%, Guinea Pig: 92%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 93%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against KCNQ4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	KCNQ4
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## Target Details

Alternative Name:	KCNQ4 ( <a href="#">KCNQ4 Products</a> )
Background:	<p>The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium channel or possibly a heteromultimeric channel in association with the protein encoded by the KCNQ3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFNA2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding different isoforms have been found for this gene.</p> <p>Alias Symbols: DFNA2, KV7.4, DFNA2A</p> <p>Protein Interaction Partner: STIP1, STUB1, HSP90B1, HSP90AA1, HSPA8, DNAJA1, KCNQ3,</p> <p>Protein Size: 695</p>
Molecular Weight:	77 kDa
Gene ID:	9132
NCBI Accession:	<a href="#">NM_004700</a> , <a href="#">NP_004691</a>
UniProt:	<a href="#">P56696</a>
Pathways:	<a href="#">Sensory Perception of Sound</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 695 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

**Image 1.** WB Suggested Anti-KCNQ4 Antibody Titration: 0.2-1 ug/ml Positive Control: HT1080 cell lysate

Western Blotting

**Image 2.** Lanes: 100 ug CHO cell lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Goat anti-rabbit HRP Secondary Antibody Dilution: 1:25000 Gene Name: KCNQ4 Submitted by: Anonymous

See Immunoblot 2 Data and Customer Feedback for more information