

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

# **Images**



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

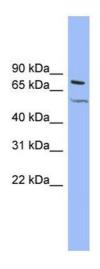
### Target Details

Alternative Name:	KCNQ4 (KCNQ4 Products)
Background:	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.
	Alias Symbols: DFNA2, KV7.4, DFNA2A
	Protein Interaction Partner: STIP1, STUB1, HSP90B1, HSP90AA1, HSPA8, DNAJA1, KCNQ3,
	Protein Size: 695
Molecular Weight:	77 kDa
Gene ID:	9132
NCBI Accession:	NM_004700, NP_004691
UniProt:	P56696
Pathways:	Sensory Perception of Sound
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

#### 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.

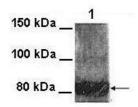
#### **Images**



#### **Western Blotting**

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

#### KCNQ4



#### **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