

Datasheet for ABIN2778214  
**anti-KCNA5 antibody (N-Term)**



[Go to Product page](#)

1 Image

## Overview

Quantity:	100 µL
Target:	KCNA5
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNA5 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human KCNA5
Sequence:	DPGVRPLPPL PEELPRPRRP PPEDEEEEGD PGLGTVEDQA LGTASLHHQR
Predicted Reactivity:	Human: 100%, Mouse: 93%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against KCNA5. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target:	KCNA5
Alternative Name:	KCNA5 ( <a href="#">KCNA5 Products</a> )
Background:	Potassium channels represent the most complex class of voltage-gated ion channels from

## Target Details

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. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). KCNA5 encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, the function of which could restore the resting membrane potential of beta cells after depolarization and thereby contribute to the regulation of insulin secretion.

Alias Symbols: ATFB7, HCK1, HK2, HPCN1, KV1.5, MGC117058, MGC117059, PCN1

Protein Interaction Partner: SIRT1, KCNAB2, ERBB2IP, SNTA1, HSP90AA1, TNK2, Rab11a, DCTN2, GNB2L1, KCNAB1, TFRC, SRC, PRKCQ, PRKCB, KCNA5, KCNA4, KCNA3, KCNA2, FYN, FHL1, DYNC111, CAV1, ACTN2, UBE2I, SUMO3, RAB5A, RAB4A, DLG4, DLG1, PTPRE, Protein Size: 613

Molecular Weight: 67 kDa

Gene ID: 3741

NCBI Accession: [NM\\_002234](#), [NP\\_002225](#)

UniProt: [P22460](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 613 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.

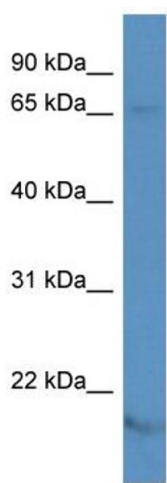
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
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-KCNA5 Antibody Titration: 1.0 ug/ml Positive Control: HepG2 Whole Cell