

Datasheet for ABIN3043264  
**anti-Kv1.4 antibody (C-Term)**



[Go to Product page](#)

**3** Images

## Overview

Quantity:	100 µg
Target:	Kv1.4 (KCNA4)
Binding Specificity:	AA 609-647, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kv1.4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily A member 4(KCNA4) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Kv1.4 (609-647aa SEYLEMEEGVKESLCAKEEK CQKGDDSETDKNNCSNAK), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.
Sequence:	SEYLEMEEGV KESLCAKEEK CQKGDDSET DKNNCSNAK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily A member 4(KCNA4) detection. Tested with WB, IHC-P in Human.  Gene Name: potassium voltage-gated channel, shaker-related subfamily, member 4

## Product Details

Protein Name: Potassium voltage-gated channel subfamily A member 4

Purification: Immunogen affinity purified.

## Target Details

Target: Kv1.4 (KCNA4)

Alternative Name: KCNA4 ([KCNA4 Products](#))

Background: Potassium voltage-gated channel subfamily A member 4, also known as Kv1.4 or PCN2, is a protein that in humans is encoded by the KCNA4 gene. This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. It is mapped to 11p14.1. KCNA4 belongs to the A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential. KCNA4 also contributes to the cardiac transient outward potassium current (Ito1), the main contributing current to the repolarizing phase 1 of the cardiac action potential. This gene has been shown to interact with DLG4, KCNA2 and DLG1.

Synonyms: Voltage gated K+ channel HuKII antibody|cardiac potassium channel antibody|fetal skeletal muscle potassium channel antibody|HBK 4 antibody|HBK4 antibody|HK 1 antibody|HK1 antibody|HPCN 2 antibody|HPCN2 antibody|HUK II antibody|HUKII antibody|KCNA 4 antibody|KCNA 8 antibody|KCNA4 antibody|KCNA4\_HUMAN antibody|KCNA4L antibody|KCNA8 antibody|kv1.4 antibody|PCN 2 antibody|PCN2 antibody|potassium channel 2 antibody|potassium channel KCNA4 antibody|potassium channel protein antibody|Potassium voltage gated channel shaker related subfamily member 4 antibody|Potassium voltage gated channel subfamily A member 4 antibody|potassium voltage-gated channel shaker-related subfamily member 4-like antibody|Potassium voltage-gated channel subfamily A member 4 antibody|rapidly inactivating potassium channel antibody|Shaker related potassium channel Kv1.4 antibody|shaker-related potassium channel Kv1.4 antibody|type A potassium channel antibody|Voltage gated potassium channel HBK4 antibody|Voltage gated potassium channel HK1 antibody|Voltage gated potassium channel subunit Kv1.4 antibody|Voltage-gated K(+) channel HuKII antibody|voltage-gated potassium channel antibody|Voltage-gated potassium channel HBK4 antibody|Voltage-gated potassium channel HK1 antibody|voltage-gated potassium channel protein Kv1.4 antibody| Voltage-gated potassium channel subunit Kv1.4 antibody

Gene ID: 3739

UniProt: [P22459](#)

## Application Details

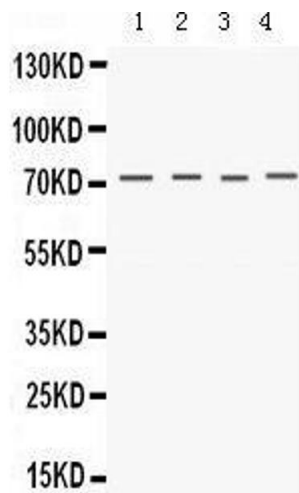
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. 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, supported by ABIN921231 in IHC(P).
----------	---

Restrictions:	For Research Use only
---------------	-----------------------

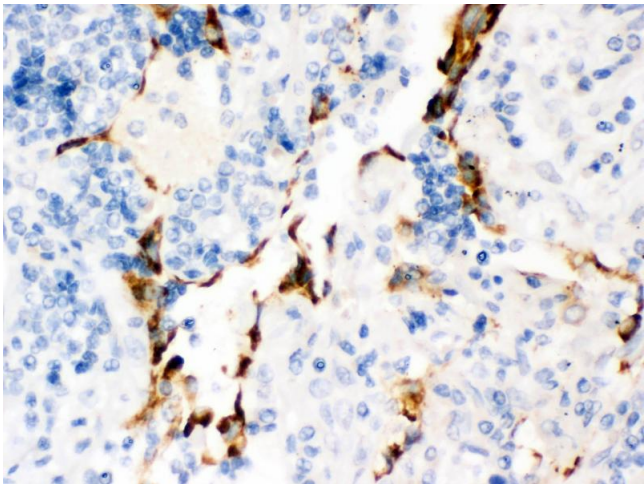
## Handling

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 Na <sub>2</sub> HPO <sub>4</sub> , 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.



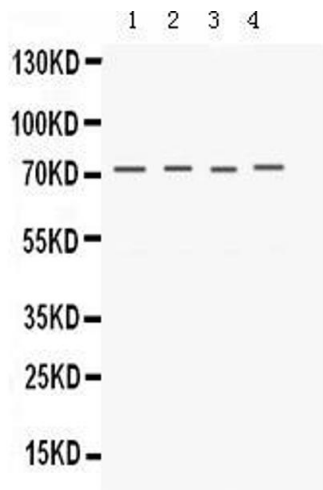
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- Kv1.4 Picoband antibody, IHC(P) IHC(P): Human Lung Cancer Tissue



Western Blotting

Image 3. Anti- Kv1.4 Picoband antibody, Western blottingAll lanes: Anti Kv1.4 at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: COLO320 Whole Cell Lysate at 40ug Lane 3: HT1080 Whole Cell Lysate at 40ug Lane 4: PANC Whole Cell Lysate at 40ug Predicted bind size: 73KD Observed bind size: 73KD