

Datasheet for ABIN7215562  
**anti-KCNA3 antibody**



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1 Image

## Overview

Quantity:	100 µL
Target:	KCNA3
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNA3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Kv1.3 Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human Kv1.3 around the non-phosphorylation site of Y187
Isotype:	IgG
Specificity:	Kv1.3 Polyclonal Antibody detects endogenous levels of Kv1.3 protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

## Target Details

Target:	KCNA3
Alternative Name:	Kv1.3 ( <a href="#">KCNA3 Products</a> )

## Target Details

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**Background:** Rabbit Anti-Kv1.3 Polyclonal Antibody, KCNA3, HGK5, Potassium voltage-gated channel subfamily A member 3, HGK5, HLK3, HPCN3, Voltage-gated K(+) channel HuKIII, Voltage-gated potassium channel subunit Kv1.3, Potassium 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. 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). KCNA3 encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. Potassium voltage-gated channel subfamily A member 3 contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T-cell proliferation and activation. This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes on chromosome 1., Potassium voltage-gated channel subfamily A member 3

**Gene ID:** 3738

**UniProt:** [P22001](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), IF (1:200-1:1000), ELISA (1:20000). Not yet tested in other applications.

**Comment:** Primary Antibody

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 mg/mL

**Buffer:** PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % 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

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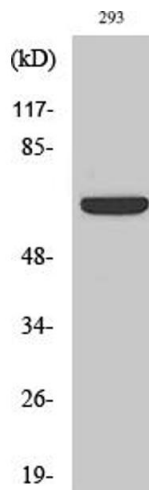
Storage: -20 °C

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Storage Comment: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

## Images

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### Western Blotting

**Image 1.** Western Blot analysis of various cells using Kv1.3 Polyclonal Antibody diluted at 1:500.