

Datasheet for ABIN7163969
anti-KCNC3 antibody (AA 638-745)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	KCNC3
Binding Specificity:	AA 638-745
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNC3 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Potassium voltage-gated channel subfamily C member 3 protein (638-745AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	KCNC3
Alternative Name:	KCNC3 (KCNC3 Products)
Background:	Background: Voltage-gated potassium channel that plays an important role in the rapid

Target Details

repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient. The channel displays rapid activation and inactivation kinetics (PubMed:10712820, PubMed:26997484, PubMed:22289912, PubMed:23734863, PubMed:16501573, PubMed:19953606, PubMed:21479265, PubMed:25756792). It plays a role in the regulation of the frequency, shape and duration of action potentials in Purkinje cells. Required for normal survival of cerebellar neurons, probably via its role in regulating the duration and frequency of action potentials that in turn regulate the activity of voltage-gated Ca^{2+} channels and cellular Ca^{2+} homeostasis (By similarity). Required for normal motor function (PubMed:23734863, PubMed:16501573, PubMed:19953606, PubMed:21479265, PubMed:25756792). Plays a role in the reorganization of the cortical actin cytoskeleton and the formation of actin veil structures in neuronal growth cones via its interaction with HAX1 and the Arp2/3 complex (PubMed:26997484).

Aliases: Kcnc3 antibody, KCNC3_HUMAN antibody, KSHIID antibody, KV3.3 antibody, Potassium voltage gated channel Shaw related subfamily member 3 antibody, Potassium voltage gated channel subfamily C member 3 antibody, Potassium voltage-gated channel subfamily C member 3 antibody, SCA13 antibody, Shaw related subfamily, member 3 antibody, Shaw related voltage gated potassium channel protein 3 antibody, Spinocerebellar ataxia 13 antibody, Voltage gated potassium channel protein KV3.3 antibody, Voltage gated potassium channel subunit Kv3.3 antibody, Voltage-gated potassium channel subunit Kv3.3 antibody

UniProt: [Q14003](#)

Application Details

Application Notes: Recommended dilution: IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

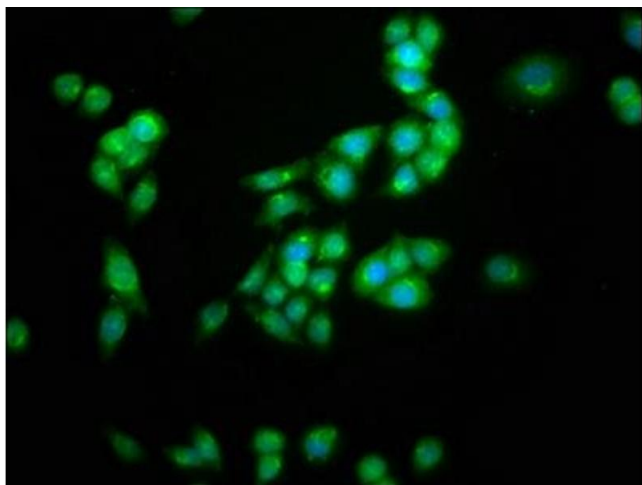
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, -80 °C

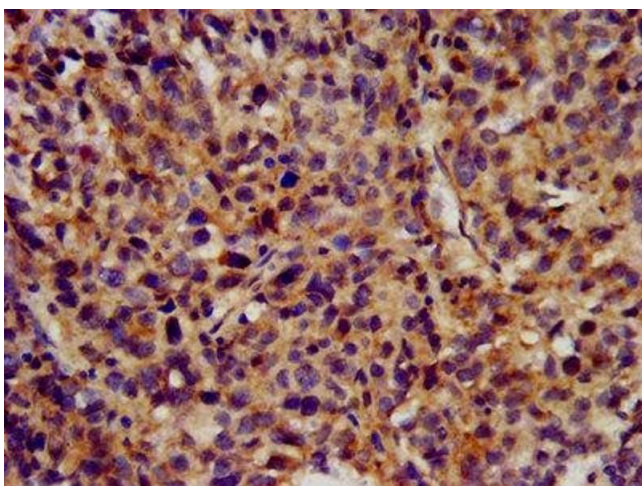
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



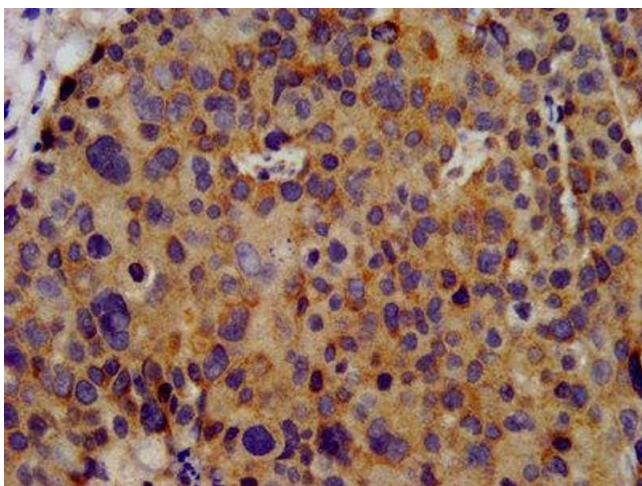
Immunofluorescence

Image 1. Immunofluorescence staining of PC-3 cells with ABIN7163969 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry

Image 2. IHC image of ABIN7163969 diluted at 1:300 and staining in paraffin-embedded human ovarian cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry

Image 3. IHC image of ABIN7163969 diluted at 1:300 and staining in paraffin-embedded human pancreatic cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and

visualized using an HRP conjugated SP system.