Datasheet for ABIN721015
anti-KCNQ1 antibody (AA 501-600)

1	Image	2	Publications

Overview

Quantity:	100 μL
Target:	KCNQ1
Binding Specificity:	AA 501-600
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNQ1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human KCNQ-1
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	KCNQ1

Target Details

Alternative Name:	KCNQ1 (KCNQ1 Products)
Background:	Synonyms: LQT, RWS, WRS, LQT1, SQT2, ATFB1, ATFB3, JLNS1, KCNA8, KCNA9, Kv1.9, Kv7.1, KVLQT1, Potassium voltage-gated channel subfamily KQT member 1, IKs producing slow voltage-gated potassium channel subunit alpha KvLQT1, KQT-like 1, Voltage-gated potassium channel subunit Kv7.1, KCNQ1 Background: Probably important in cardiac repolarization. Associates with KCNE1 (MinK) to form the I(Ks) cardiac potassium current. Elicits a rapidly activating, potassium-selective outward current. Muscarinic agonist oxotremorine-M strongly suppresses KCNQ1/KCNE1 current in CHO cells in which cloned KCNQ1/KCNE1 channels were coexpressed with M1 muscarinic receptors. May associate also with KCNE3 (MiRP2) to form the potassium channel that is important for cyclic AMP-stimulated intestinal secretion of chloride ions, which is reduced in cystic fibrosis and pathologically stimulated in cholera and other forms of secretory diarrhea.
Gene ID:	3784
UniProt:	P51787
Pathways:	Negative Regulation of Hormone Secretion, Sensory Perception of Sound

Application Details

Application Notes:	WB 1:300-5000
	 ELISA 1:500-1000
	 IHC-P 1:200-400
	 IHC-F 1:100-500
	 IF(IHC-P) 1:50-200
	 IF(IHC-F) 1:50-200
	 IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

## Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Trotta, Ferraro, Messina, Panarese, Gulotta, Nicoletti, DAmico, Pieretti: "Telmisartan cardioprotects from the ischaemic/hypoxic damage through a miR-1-dependent pathway." in: **Journal of cellular and molecular medicine**, Vol. 23, Issue 10, pp. 6635-6645, (2020) (PubMed).
	Zhao, Xu, Yun, Zhao, Li, Gong, Yuan, Yan, Zhang, Ding, Wang, Zhang, Dong, Xiu, Yang, Liu, Xue, Li : "Chronic obstructive sleep apnea causes atrial remodeling in canines: mechanisms and implications." in: **Basic research in cardiology**, Vol. 109, Issue 5, pp. 427, (2014) (PubMed).

Images
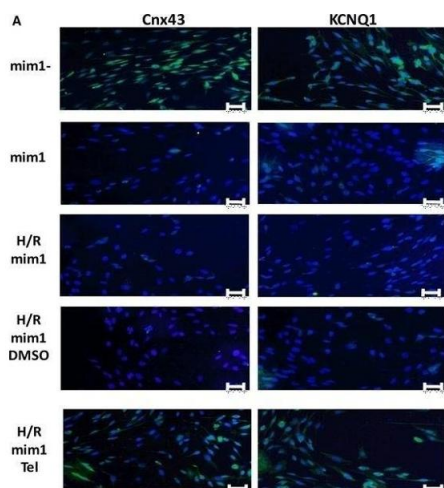
Immunofluorescence (Cultured Cells)

Image 1. Telmisartan effects on hypoxic H9c2 cardiomyocytes transfected with miR-1 mimic. A, Representative immunofluorescence images, showing Cnx3 and KCNQ1 levels in miR-1-transfected cells exposed to hypoxia/reperfusion. Cell nuclei are labelled in blue with Hoechst, whereas cells positive to Cnx43 or KCNQ1 antibodies are labelled in green. B, Bar graph showing the percentage of Cnx or KCNQ1-positive cells/total counted cells. C, Bcl-2 protein levels in miR-1-transfected H/R cardiomyocytes, detected by ELISA. mim1-, normoxic cells transfected with negative control mimic, mim1, normoxic cells transfected with miR-1 mimic 5 nmol/L, H/R mim1, cells transfected with miR-1 mimic 5 nmol/L and exposed to hypoxia/reoxygenation, H/R mim1 DMSO, H/R mim1 cells

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Images

exposed to DMSO 1 % , H/R mim1 Tel, H/R mim1 cells exposed to telmisartan 50 μmol/L. Results are expressed as mean ± SEM of nine observations. #$P < .05$ vs mim1-, ##$P < 0.01$ vs mim1-,^$P < .05$ vs mim1, $P < .01$ vs H/R mim1 DMSO. Scale bar = 10 μmol/L, 20x magnification - figure provided by CiteAb. Source: PMID31369209