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Datasheet for ABIN2776270

anti-KCNK4 antibody (N-Term)

1 Image 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	KCNK4
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Cow, Dog, Guinea Pig, Horse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNK4 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 KCNK4
Sequence:	MRSTTLLALL ALVLLYLVSG ALVFRALEQP HEQQAQRELG EVREKFLRAH
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 79%, Horse: 100%, Human: 100%, Pig: 100%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against KCNK4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	KCNK4
Alternative Name:	KCNK4 (KCNK4 Products)

Target Details

Background:	Potassium channels play a role in many cellular processes including maintenance of the action potential, muscle contraction, hormone secretion, osmotic regulation, and ion flow. KCNK4 is one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. It homodimerizes and functions as an outwardly rectifying channel. It is expressed primarily in neural tissues and is stimulated by membrane stretch and polyunsaturated fatty acids. Potassium channels play a role in many cellular processes including maintenance of the action potential, muscle contraction, hormone secretion, osmotic regulation, and ion flow. This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. The encoded protein homodimerizes and functions as an outwardly rectifying channel. It is expressed primarily in neural tissues and is stimulated by membrane stretch and polyunsaturated fatty acids. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: K2p4.1, TRAAK, TRAAK1 Protein Interaction Partner: DIDO1, RPL14, Protein Size: 393
Molecular Weight:	43 kDa
Gene ID:	50801
NCBI Accession:	NM_033310, NP_201567
UniProt:	Q9NYG8

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 393 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

Handling

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 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.

Publications

Product cited in:

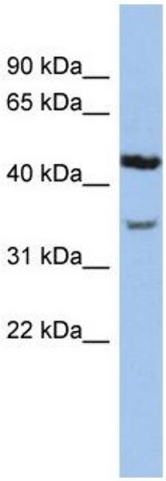
Palmieri, Gojis, Rudraraju, Stamp-Vincent, Wilson, Langdon, Gourley, Faratian: "Expression of steroid receptor coactivator 3 in ovarian epithelial cancer is a poor prognostic factor and a marker for platinum resistance." in: **British journal of cancer**, Vol. 108, Issue 10, pp. 2039-44, (2013) (PubMed).

Viringipurampeer, Ferreira, DeMaria, Yoon, Shan, Moosajee, Gregory-Evans, Ngai, Gregory-Evans : "Pax2 regulates a fadd-dependent molecular switch that drives tissue fusion during eye development." in: **Human molecular genetics**, Vol. 21, Issue 10, pp. 2357-69, (2012) (PubMed).

Lee, Doberstein, Baumgarten, Wieland, Ungerer, Bürger, Hardt, Boehncke, Pfeilschifter, Mihic-Probst, Mittelbronn, Gutwein: "PAX2 regulates ADAM10 expression and mediates anchorage-independent cell growth of melanoma cells." in: **PLoS ONE**, Vol. 6, Issue 8, pp. e22312, (2011) (PubMed).

Yu, Moriniere, Birke, Neumann, Fuchshofer, Kampik, Bloemendal, Welge-Lussen: "Reactivation of optic nerve head astrocytes by TGF-beta2 and H2O2 is accompanied by increased Hsp32 and Hsp47 expression." in: **Investigative ophthalmology & visual science**, Vol. 50, Issue 4, pp. 1707-17, (2009) (PubMed).

Hurtado, Holmes, Geistlinger, Hutcheson, Nicholson, Brown, Jiang, Howat, Ali, Carroll: " Regulation of ERBB2 by oestrogen receptor-PAX2 determines response to tamoxifen." in: **Nature**, Vol. 456, Issue 7222, pp. 663-6, (2008) (PubMed).



Western Blotting

Image 1. WB Suggested Anti-KCNK4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Jurkat cell lysate

