Datasheet for ABIN3043867

anti-KCNMA1 antibody (AA 124-467)

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	KCNMA1
Binding Specificity:	AA 124-467
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Calcium-activated potassium channel subunit alpha-1(KCNMA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human KCNMA1 recombinant protein (Position: K124-Q467). Human KCNMA1 shares 99% amino acid (aa) sequence identity with both mouse and rat KCNMA1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Calcium-activated potassium channel subunit alpha-1(KCNMA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: potassium large conductance calcium-activated channel, subfamily M, alpha member 1 Protein Name: Calcium-activated potassium channel subunit alpha-1
Purification:	Immunogen affinity purified.

Target Details

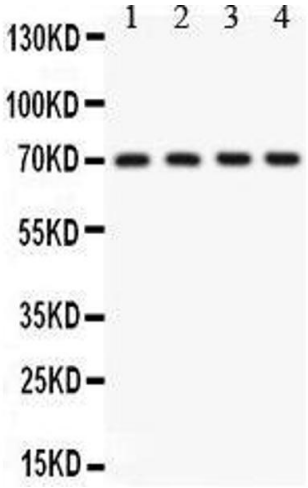
Target:	KCNMA1
Alternative Name:	KCNMA1 (KCNMA1 Products)
Background:	Calcium-activated potassium channel subunit alpha-1 also known as KCa1.1, or BK channel for short, is a voltage gated potassium channel encoded by the KCNMA1 gene and characterized by their large conductance of potassium ions (K+) through cell membranes. This gene is located on 10q22.3. BK channels are activated (opened) by changes in membrane electrical potential and/or by increases in concentration of intracellular calcium ion (Ca2+). It is essential for the regulation of several key physiological processes including smooth muscle tone and neuronal excitability. BK channels also contribute to the behavioral effects of ethanol in the worm C. elegans under high concentrations (> 100 mM, or approximately 0.50 % BAC).It remains to be determined if BK channels contribute to intoxication in humans. Synonyms: subfamily M subunit alpha-1 antibody|bA205K10.1 antibody|BK channel antibody|BKCA alpha antibody|BKCA alpha subunit antibody|BKTM antibody|Calcium activated potassium channel subfamily M subunit alpha 1 antibody|Calcium activated potassium channel subunit alpha 1 antibody|Calcium-activated potassium channel antibody|Calcium-activated potassium channel subunit alpha-1 antibody|DKFZp686K1437 antibody|Drosophila slowpoke like antibody|hSlo antibody|K(VCA)alpha antibody|KCa1.1 antibody|KCMA1_HUMAN antibody|KCNMA 1 antibody|KCNMA antibody|KCNMA1 antibody|Large conductance calcium activated potassium channel subfamily M alpha member 1 antibody|Maxi K antibody|Maxi K channel antibody|Maxi Potassium channel alpha antibody|MaxiK antibody|MGC71881 antibody|OTTHUMP00000060198 antibody|OTTHUMP00000064154 antibody|OTTHUMP00000064155 antibody|OTTHUMP00000064156 antibody|OTTHUMP00000064157 antibody|OTTHUMP00000064158 antibody|OTTHUMP00000064159 antibody|OTTHUMP00000064160 antibody|OTTHUMP00000064161 antibody|OTTHUMP00000064162 antibody|OTTHUMP00000064164 antibody|OTTHUMP00000064165 antibody|Potassium large conductance calcium activated channel subfamily M alpha member 1 antibody|SAKCA antibody|Slo 1 antibody|SLO alpha antibody|SLO antibody|Slo homolog antibody|Slo-alpha antibody|Slo1 antibody|Slowpoke homolog antibody|Stretch activated Kca channel antibody
Gene ID:	3778
UniProt:	Q12791
Pathways:	Regulation of Hormone Metabolic Process, Sensory Perception of Sound

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, The detection limit for KCNMA1 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, 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. Predicted Species: Species predicted to be fit for the product based on sequence similarities. 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

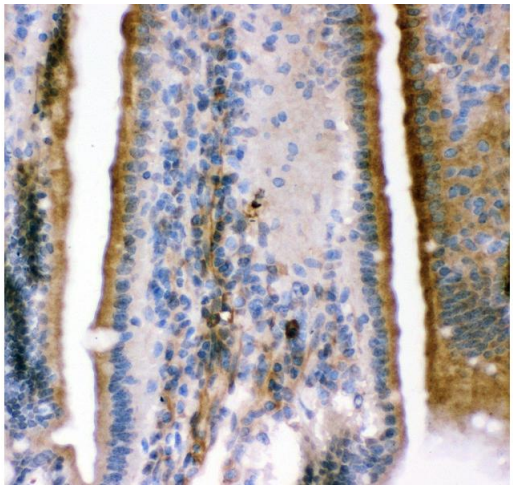
Handling

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 Na2HPO4, 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.



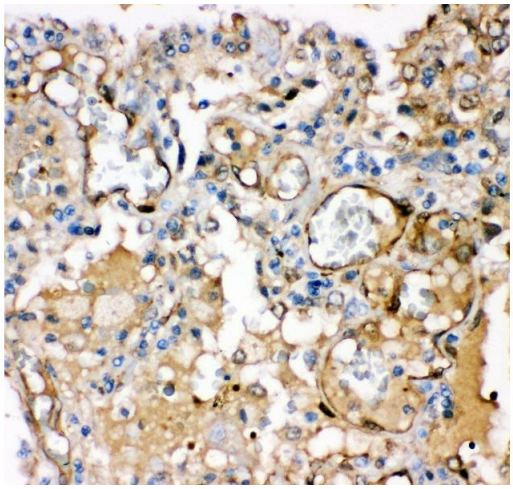
Western Blotting

Image 1. Anti- KCNMA1antibody, Western blotting All lanes: Anti KCNMA1 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Testis Tissue Lysate at 50ug Lane 3: Mouse Brain Tissue Lysate at 50ug Lane 4: Mouse Testis Tissue Lysate at 50ug Predicted bind size: 137KD Observed bind size: 70KD



Immunohistochemistry

Image 2. Anti- KCNMA1antibody,IHC(P) IHC(P): Mouse Intestine Tissue



Immunohistochemistry

Image 3. Anti- KCNMA1antibody,IHC(P) IHC(P): Human Lung Cancer Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043867.