

Rabbit Calcium-activated potassium channel subunit alpha-1 Polyclonal Antibody | anti-KCNMA1 antibody

Anti-KCNMA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46094	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

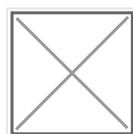
PRODUCT SYNONYMS

Calcium-activated potassium channel subunit alpha-1; Polyclonal Antibody; Anti-KCNMA1 Antibody; 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; potassium large conductance calcium-activated channel; subfamily M; alpha member 1; anti-KCNMA1 antibody

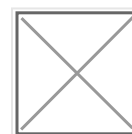
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1182
Applicable Applications for anti-KCNMA1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
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.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti- KCNMA1antibody, AAA46094,IHC(P)IHC(P): Human Lung Cancer Tissue



IHC (Immunohistochemistry)
Anti- KCNMA1antibody, AAA46094,IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)

Anti- KCNMA1 antibody, AAA46094, IHC(P) IHC(P): Mouse Intestine Tissue



WB (Western Blot)

Anti- KCNMA1 antibody, AAA46094, Western blotting All lanes: Anti KCNMA1 (AAA46094) 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

ADDITIONAL INFORMATION

Related Product Information for anti-KCNMA1 antibody

Description: Rabbit IgG polyclonal antibody for Calcium-activated potassium channel subunit alpha-1 (KCNMA1) detection. Tested with WB, IHC-P in Human; Mouse; Rat.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62388890
NCBI GeneID	3778
NCBI Accession #	NP_001014797.1
NCBI GenBank Nucleotide #	NM_001014797.2
UniProt Accession #	Q12791; Q12886; Q12917; Q12921; Q12960; Q13150; Q5JQ23; Q5SQR9; Q96LG8; Q9UBB0; Q9UCX0; F8WA96
Molecular Weight	138,297 Da
NCBI Official Full Name	calcium-activated potassium channel subunit alpha-1 isoform a
NCBI Official Synonym Full Names	potassium large conductance calcium-activated channel, subfamily M, alpha member 1
NCBI Official Symbol	KCNMA1
NCBI Official Synonym Symbols	SLO; BKTM; SLO1; MaxiK; SAKCA; mSLO1; KCa1.1; SLO-ALPHA; bA205K10.1
NCBI Protein Information	calcium-activated potassium channel subunit alpha-1; uncharacterized protein; hSlo; k(VCA)alpha; slo homolog; slowpoke homolog; BKCA alpha subunit; maxi-K channel HSLO; BK channel alpha subunit; stretch-activated Kca channel; calcium-activated potassium channel, subfamily M subunit alpha-1
UniProt Protein Name	Calcium-activated potassium channel subunit alpha-1
UniProt Gene Name	KCNMA1
UniProt Synonym Gene Names	KCNMA; SLO; MaxiK; Slo homolog; hSlo
UniProt Entry Name	KCMA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calcium-activated-potassium-channel-subunit-alpha-1-antibody-immunohistochemistry-western-blot-elisa/46094>