

**KCNMA1 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21822a**

**Specification**

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**KCNMA1 Antibody (N-Term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q12791</a>
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	137560

**KCNMA1 Antibody (N-Term) - Additional Information**

**Gene ID** 3778

**Other Names**

Calcium-activated potassium channel subunit alpha-1, BK channel, BKCA alpha, Calcium-activated potassium channel, subfamily M subunit alpha-1, K(VCA)alpha, KCa11, Maxi K channel, MaxiK, Slo-alpha, Slo1, Slowpoke homolog, Slo homolog, hSlo, KCNMA1, KCNMA, SLO

**Target/Specificity**

This KCNMA1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 118-152 amino acids from human KCNMA1.

**Dilution**

WB~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KCNMA1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNMA1 Antibody (N-Term) - Protein Information**

**Name** KCNMA1 ([HGNC:6284](#))

**Synonyms** KCNMA, SLO

**Function** Potassium channel activated by both membrane depolarization or increase in cytosolic Ca(2+) that mediates export of K(+) (PubMed:[29330545](#), PubMed:[31152168](#)). It is also activated by the concentration of cytosolic Mg(2+). Its activation dampens the excitatory events that elevate the cytosolic Ca(2+) concentration and/or depolarize the cell membrane. It therefore contributes to repolarization of the membrane potential. Plays a key role in controlling excitability in a number of systems, such as regulation of the contraction of smooth muscle, the tuning of hair cells in the cochlea, regulation of transmitter release, and innate immunity. In smooth muscles, its activation by high level of Ca(2+), caused by ryanodine receptors in the sarcoplasmic reticulum, regulates the membrane potential. In cochlea cells, its number and kinetic properties partly determine the characteristic frequency of each hair cell and thereby helps to establish a tonotopic map. Kinetics of KCNMA1 channels are determined by alternative splicing, phosphorylation status and its combination with modulating beta subunits. Highly sensitive to both iberiotoxin (IbTx) and charybdotoxin (CTX).

#### Cellular Location

Cell membrane; Multi-pass membrane protein

#### Tissue Location

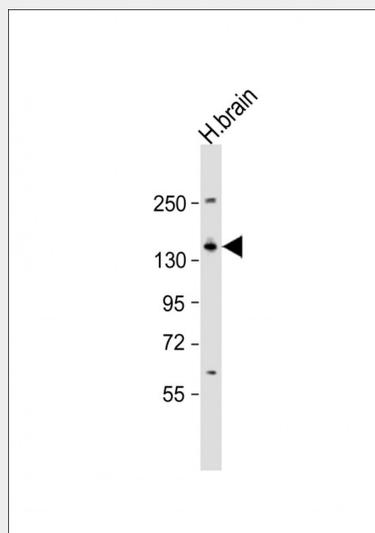
Widely expressed. Except in myocytes, it is almost ubiquitously expressed.

### KCNMA1 Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KCNMA1 Antibody (N-Term) - Images



Anti-KCNMA1 Antibody (N-Term) at 1:500 dilution + human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 138 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **KCNMA1 Antibody (N-Term) - Background**

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### **KCNMA1 Antibody (N-Term) - References**

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Deloukas P., et al. Nature 429:375-381(2004).  
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Tseng-Crank J., et al. Neuron 13:1315-1330(1994).