

**MaxiK $\alpha$  Polyclonal Antibody**  
Catalog # AP70849**Specification****MaxiK $\alpha$  Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q12791</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**MaxiK $\alpha$  Polyclonal Antibody - Additional Information****Gene ID** 3778**Other Names**

KCNMA1; KCNMA; SLO; Calcium-activated potassium channel subunit alpha-1; BK channel; BKCA alpha; Calcium-activated potassium channel; subfamily M subunit alpha-1; K(VCA)alpha; KCa1.1; Maxi K channel; MaxiK; Slo-alpha; Slo1; Slowpoke homolog

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**MaxiK $\alpha$  Polyclonal Antibody - 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:<http://www.uniprot.org/citations/14523450> target="\_blank">14523450</a>, PubMed:<http://www.uniprot.org/citations/29330545> target="\_blank">29330545</a>, PubMed:<http://www.uniprot.org/citations/31152168> target="\_blank">31152168</a>). 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

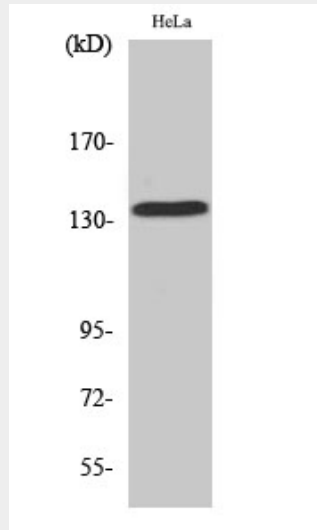
Widely expressed. Except in myocytes, it is almost ubiquitously expressed.

### MaxiK $\alpha$ Polyclonal Antibody - 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](#)

### MaxiK $\alpha$ Polyclonal Antibody - Images



### MaxiK $\alpha$ Polyclonal Antibody - Background

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