# Product Name: MaxiKβ Rabbit Polyclonal Antibody

Catalog #: APRab13675



# **Summary**

**Production Name** MaxiKβ Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Storage

Gene Name KCNMB4

KCNMB4; Calcium-activated potassium channel subunit beta-4; BK channel subunit

Alternative Names beta-4; BKbeta4; Hbeta4; Calcium-activated potassium channel; subfamily M subunit

beta-4; Charybdotoxin receptor subunit beta-4; K(VCA)beta-4; Maxi K channel sub

**Gene ID** 27345.0

Q86W47.The antiserum was produced against synthesized peptide derived from SwissProt ID

human MaxiKbeta. AA range:70-119

# **Application**

**Dilution Ratio** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000...

Molecular Weight 24kD

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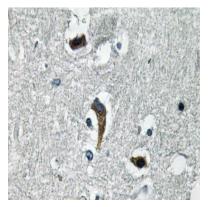
# **Background**

MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which slows activation kinetics, leads to steeper calcium sensitivity, and shifts the voltage range of current activation to more negative potentials than does the beta 1 subunit. [provided by RefSeq, Jul 2008],domain:Resistance to charybdotoxin (CTX) toxin is mediated by the extracellular domain.,function:Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Decreases the gating kinetics and calcium sensitivity of the KCNMA1 channel, but with fast deactivation kinetics. May decrease KCNMA1 channel openings at low calcium concentrations but increases channel openings at high calcium concentrations. Makes KCNMA1 channel resistant to 100 nM charybdotoxin (CTX) toxin concentrations., miscellaneous: Treatment with okadaic acid reduces its effect on KCNMA1., PTM:N-qlycosylated. A highly glycosylated form is promoted by KCNMA1. Glycosylation, which is not required for the interaction with KCNMA1 and subcellular location, increases protection against charybdotoxin., PTM: Phosphorylated. Phosphorylation modulates its effect on KCNMA1 activation kinetics, similarity: Belongs to the KCNMB family, subunit: Interacts with KCNMA1 tetramer. There are probably 4 molecules of KCMNB4 per KCNMA1 tetramer., tissue specificity: Predominantly expressed in brain. In brain, it is expressed in the cerebellum, cerebral cortex, medulla, spinal cord, occipital pole, frontal lobe, temporal lobe, putamen, amygdala, caudate nucleus, corpus callosum, hippocampus, substantia nigra and thalamus. Weakly or not expressed in other tissues.,

#### **Research Area**

Vascular smooth muscle contraction;

#### **Image Data**



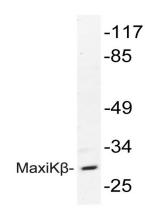
Immunohistochemistry analysis of MaxiKβ antibody in paraffin-embedded human brain tissue.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

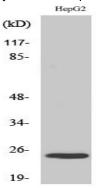
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Western blot analysis of lysate from HepG2 cells, using MaxiKβ antibody.



Western Blot analysis of various cells using MaxiKß Polyclonal Antibody

#### Note

For research use only.