MaxiKβ Rabbit pAb

CatalogNo: YT2667

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 24kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human MaxiKbeta. AA range:70-119
Specificity	MaxiKβ Polyclonal Antibody detects endogenous levels of MaxiKβ protein.

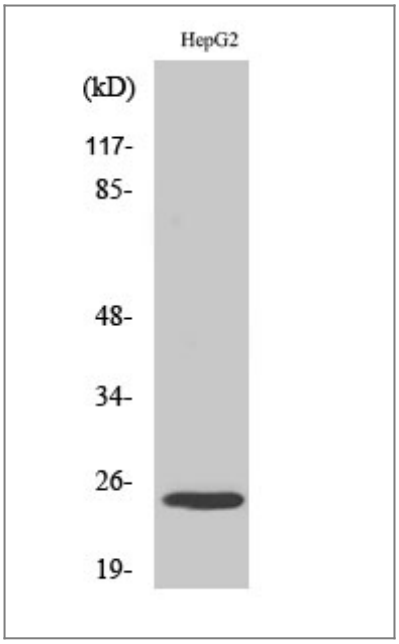
Target Information

Gene name	KCNMB4
Protein Name	Calcium-activated potassium channel subunit beta-4

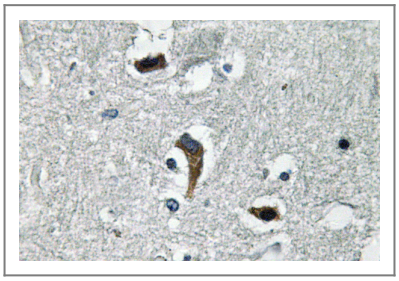
Organism	Gene ID	UniProt ID
Human	27345;	Q86W47;
Mouse	58802;	Q9JIN6;
Rat	66016;	Q9ESK8;

Cellular Localization	Membrane; Multi-pass membrane protein.
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.
Function	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-glycosylated. 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.,

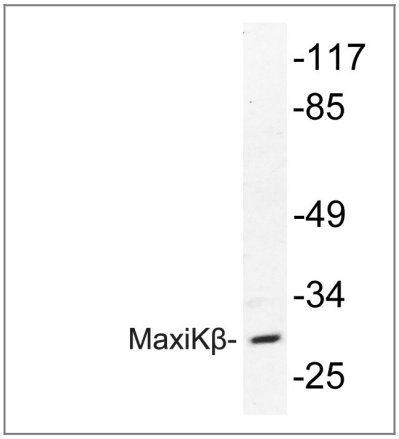
Validation Data



Western Blot analysis of various cells using MaxiKβ Polyclonal Antibody



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



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

Contact information

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Please scan the QR code to access additional product information:
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