

KCMB1 Rabbit pAb

CatalogNo: YN0522 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 21kD (Observed)

Isotype

- IgG

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.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein. AA range:63-113

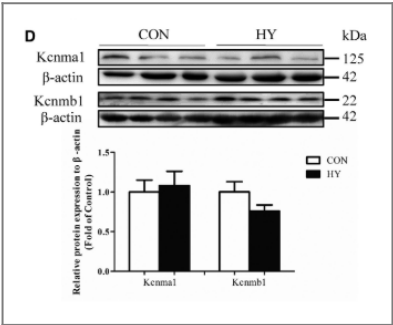
Specificity KCMB1 Polyclonal Antibody detects endogenous levels of protein.

Target Information

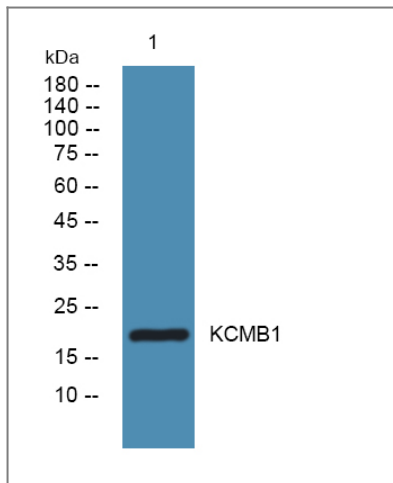
Gene name KCNMB1

Protein Name	Calcium-activated potassium channel subunit beta-1 (BK channel subunit beta-1) (BKbeta) (BKbeta1) (Hbeta1) (Calcium-activated potassium channel, subfamily M subunit beta-1) (Calcium-activated potassium channel subunit beta) (Charybdotoxin receptor subunit beta-1) (K (VCA) beta-1) (Maxi K channel subunit beta-1) (Slo-beta-1) (Slo-beta)		
	Organism	Gene ID	UniProt ID
	Human	3779;	Q16558;
	Mouse		Q8CAE3;
	Rat		P97678;
Cellular Localization	Membrane; Multi-pass membrane protein.		
Tissue specificity	Abundantly expressed in smooth muscle. Low levels of expression in most other tissues. Within the brain , relatively high levels found in hippocampus and corpus callosum.		
Function	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. Increases the apparent Ca (2+) /voltage sensitivity of the KCNMA1 channel. It also modifies KCNMA1 channel kinetics and alters its pharmacological properties. It slows down the activation and the deactivation kinetics of the channel. Acts as a negative regulator of smooth muscle contraction by enhancing the calcium sensitivity to KCNMA1. Its presence is also a requirement for internal binding of the KCNMA1 channel opener dehydrosoyasaponin I (DHS-1) triterpene glycoside and for external binding of the agonist hormone 17-beta-estradiol (E2) . Increases the binding activity of charybdotoxin (CTX) toxin to KCNMA1 peptide blocker by increasing the CTX association rate and decreasing the dissociation rate. ,polymorphism:Genetic variation in KCNMB1 can influence the severity of diastolic hypertension. ,PTM:N-glycosylated. ,similarity:Belongs to the KCNMB family. ,subunit:Interacts with KCNMA1 tetramer. There are probably 4 molecules of KCMNB1 per KCNMA1 tetramer. ,tissue specificity:Abundantly expressed in smooth muscle. Low levels of expression in most other tissues. Within the brain , relatively high levels found in hippocampus and corpus callosum. ,		

Validation Data



Zhang, Wenna, et al. "Prenatal hypoxia inhibited propionate-evoked BK channels of mesenteric artery smooth muscle cells in offspring." Journal of cellular and molecular medicine24.5 (2020): 3192-3202.



Western blot analysis of lysates from PC12 cells, primary antibody was diluted at 1:1000, 4°C over night

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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KCMB1 Rabbit pAb

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