

KCMB3 Rabbit pAb

CatalogNo: YN0523

Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat

Applications

- WB,ELISA

MW

- 30kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein

Specificity KCMB3 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name KCNMB3 KCNMB2 KCNMBL

Protein Name Calcium-activated potassium channel subunit beta-3 (BK channel subunit beta-3) (BKbeta3) (Hbeta3) (Calcium-activated potassium channel, subfamily M subunit beta-3) (Charybdotoxin receptor subunit beta-3) (K(VCA)beta-3) (Maxi K channel subunit beta-3) (Slo-beta-3)

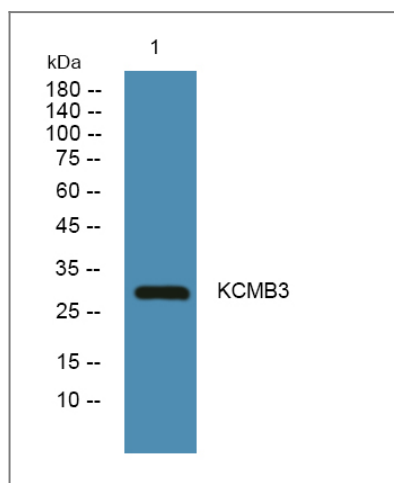
Organism	Gene ID	UniProt ID
Human	27094 ;	Q9NPA1 ;
Rat		A7VL23 ;

Cellular Localization Membrane; Multi-pass membrane protein.

Tissue specificity Isoform 1, isoform 3 and isoform 4 are widely expressed. Isoform 2 is expressed placenta, pancreas, kidney and heart. Isoform 1 and isoform 3 are highly expressed in pancreas and testis.

Function Domain:The cytoplasmic N-terminus domain of isoform 4 participates in the partial inactivation of KCNMA1, possibly by binding to a receptor site.,Domain:The extracellular domain forms gates to block ion permeation, providing a mechanism by which current can be rapidly diminished upon cellular repolarization.,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. Alters the functional properties of the current expressed by the KCNMA1 channel. Isoform 2, isoform 3 and isoform 4 partially inactivate the current of KCNBMA. Isoform 4 induces a fast and incomplete inactivation of KCNMA1 channel that is detectable only at large depolarizations. In contrast, isoform 1 does not induce detectable inactivation of KCNMA1. Two or more subunits of KCNMB3 are required to block the KCNMA1 tetramer.,PTM:N-glycosylated.,PTM:The extracellular domain contains disulfide bond essential for the gating mechanism.,similarity:Belongs to the KCNMB family.,subunit:Interacts with KCNMA1 tetramer. There are probably 4 molecules of KCMNB3 per KCNMA1 tetramer.,tissue specificity:Isoform 1, isoform 3 and isoform 4 are widely expressed. Isoform 2 is expressed placenta, pancreas, kidney and heart. Isoform 1 and isoform 3 are highly expressed in pancreas and testis.,

Validation Data



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night

| Contact information

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KCMB3 Rabbit pAb

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