

## KCMB3 Rabbit pAb

CatalogNo: YN0523

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human,Rat

#### Applications

- WB,ELISA

#### MW

- 30kD (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

#### 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)

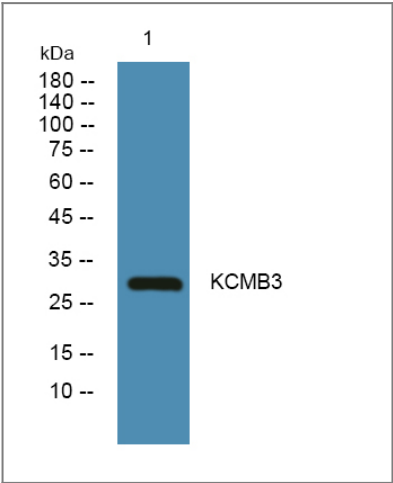
Organism	Gene ID	UniProt ID
Human	<a href="#">27094</a> ;	<a href="#">Q9NPA1</a> ;
Rat		<a href="#">A7VL23</a> ;

**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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