

## Product datasheet for **AP20667PU-M**

### KCNMB1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MaxiKbeta protein. (region surrounding Lys119)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 30 kDa
Gene Name:	potassium calcium-activated channel subfamily M regulatory beta subunit 1
Database Link:	<u><a href="#">Entrez Gene 16533 Mouse</a></u> <u><a href="#">Entrez Gene 29747 Rat</a></u> <u><a href="#">Entrez Gene 3779 Human</a></u> <u><a href="#">Q16558</a></u>



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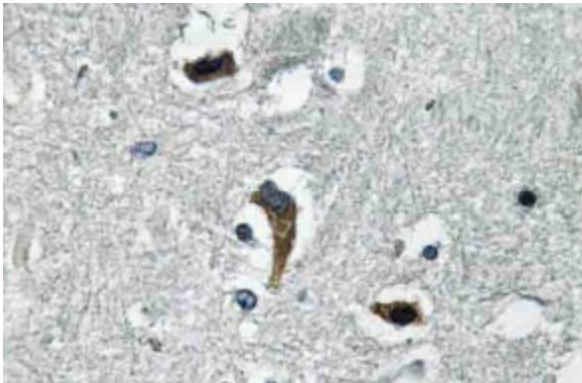
**Background:** The KCNMB1 gene, located on chromosome 5q34, contains four exons and encodes the 191 amino-acid protein MaxiKbeta subunit 1 (also designated calcium-activated potassium channel beta subunit, BK channel beta subunit, Slo-beta and KVCAbeta). MaxiKbeta subunit 1 consists of two putative transmembrane domains, an extracellular loop containing three consensus sequences for N-linked glycosylation and four cysteine residues that might form disulfide bridges. MaxiKbeta subunit 1, one of four subunits in the MaxiKbeta family, is expressed predominately in smooth muscle tissue but is also found in brain, liver and lymphatic tissues. MaxiKbeta subunit 1 associates with MaxiKalpha to form a calcium-activated potassium channel (also designated MaxiK and BK channel). MaxiKbeta subunit 1 increases the sensitivity of the MaxiKalpha to calcium and voltage. The MaxiKalpha/beta1 channel is the most sensitive of all Maxi channels to calcium. MaxiKbeta plays an important role in vasoregulation by controlling the sensitivity of MaxiK channels to calcium, which leads to the proper amount of arterial relaxation.

**Synonyms:** subfamily M beta-1, Maxi K channel beta-1, BK channel beta-1, K VCAbeta-1, Slo-beta-1, Charybdotoxin receptor subunit beta-1

**Protein Families:** Druggable Genome, Ion Channels: Other, Transmembrane

**Protein Pathways:** Vascular smooth muscle contraction

### Product images:



Immunohistochemistry (IHC) analyzes of MaxiKbeta antibody (Cat.-No.: [AP20667PU-N]) in paraffin-embedded human brain tissue.