

Anti-KCNMB2 Antibody

Catalog # AP59792

Product Information

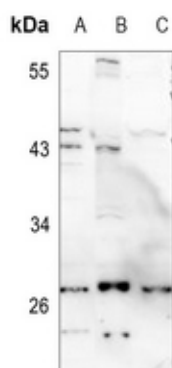
Application	WB, IHC, IF/IC
Primary Accession	Q9Y691
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27130

Additional Information

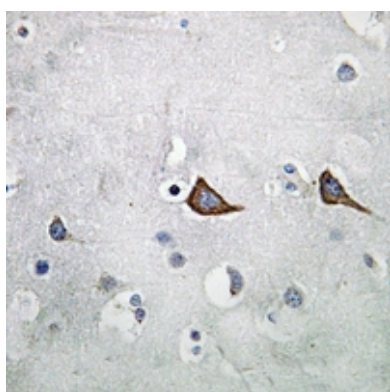
Gene ID	10242
Other Names	Calcium-activated potassium channel subunit beta-2; BK channel subunit beta-2; BKbeta2; Hbeta2; Calcium-activated potassium channel, subfamily M subunit beta-2; Charybdotoxin receptor subunit beta-2; Hbeta3; K(VCA)beta-2; Maxi K channel subunit beta-2; Slo-beta-2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KCNMB2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

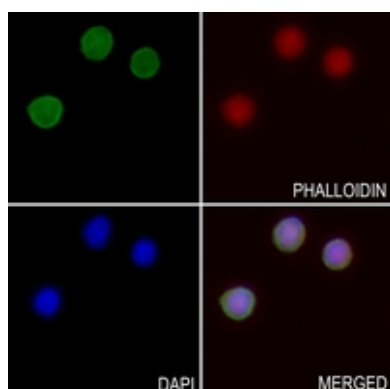
Name	KCNMB2
Function	Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Acts as a negative regulator that confers rapid and complete inactivation of KCNMA1 channel complex. May participate in KCNMA1 inactivation in chromaffin cells of the adrenal gland or in hippocampal CA1 neurons.
Cellular Location	Membrane; Multi-pass membrane protein.
Tissue Location	Expressed in kidney, heart and brain. Highly expressed in ovary. Expressed at low level in other tissues



Western blot analysis of KCNMB2 expression in U87MG (A), SP20 (B), H9C2 (C) whole cell lysates. (Predicted band size: 27 kDa; Observed band size: 27 kDa)



Immunohistochemical analysis of KCNMB2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of KCNMB2 staining in BV2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.