

Anti-HCN2 antibody



Description	Rabbit polyclonal to HCN2.
Model	STJ93476
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human HCN2
Immunogen Region	460-540 aa, Internal
Gene ID	610
Gene Symbol	HCN2
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
Specificity	HCN2 Polyclonal Antibody detects endogenous levels of HCN2 protein.
Tissue Specificity	Highly expressed throughout the brain. Detected at low levels in heart.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2 Brain cyclic nucleotide-gated channel 2 BCNG-2
Molecular Weight	100 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4846OMIM:602781
Alternative Names	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2 Brain cyclic nucleotide-gated channel 2 BCNG-2
Function	Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Can also transport ammonium in the distal nephron. Produces a large instantaneous current. Modulated by intracellular chloride ions and pH; acidic pH shifts the activation to more negative voltages .
Sequence and Domain Family	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
Cellular Localization	Cell membrane
Post-translational Modifications	Phosphorylation at Ser-668 by PRKG2 shifts the voltage-dependence to more negative voltages, hence counteracting the stimulatory effect of cGMP on gating.