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Immunotag™ HCN2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT2111
Product Description	Immunotag™ HCN2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	HCN2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from HCN2, at AA range: 460-540
Specificity	HCN2 Polyclonal Antibody detects endogenous levels of HCN2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	HCN2
Accession No.	Q9UL51 O88703 Q9JKA9
Alternate Names	HCN2; BCNG2; Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2; Brain cyclic nucleotide-gated channel 2; BCNG-2
Description	hyperpolarization activated cyclic nucleotide gated potassium channel 2(HCN2) Homo sapiens Hyperpolarization-activated cation channels of the HCN gene family, such as HCN2, contribute to spontaneous rhythmic activity in both heart and brain.[supplied by OMIM, Jul 2010],

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Protein Expression	Brain,Heart,
Subcellular Localization	plasma membrane,integral component of plasma membrane,voltage-gated potassium channel complex,HCN channel complex,
Protein Function	domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.,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). Produces a large instantaneous current. Activated by cAMP. Modulated by intracellular chloride ions and pH; acidic pH shifts the activation to more negative voltages.,miscellaneous:Inhibited by extracellular cesium ions.,similarity:Belongs to the potassium channel HCN family.,similarity:Contains 1 cyclic nucleotide-binding domain.,subunit:The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits. Heteromultimer with HCN1. Interacts with KCNE2.,tissue specificity:Highly expressed throughout the brain. Detected at low levels in heart.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.