

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HCN4 in ELISA
Source	Monoclonal Mouse IgG ₁ Clone # 880904
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HCN4 Lys1084-Leu1203 Accession # Q9Y3Q4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HCN4 (hyperpolarization-activated cyclic nucleotide-gated channel 4) is a 120-160 kDa, 1203 amino acid (aa) multipass plasma membrane protein that is a member of the HCN family of potassium channel proteins. It is mainly expressed in cardiac myocytes, thalamus and testis. HCN4 is important for pacemaker function in the heart, and rhythmic activity in the thalamus. Specific mutations can cause Sick Sinus Syndrome 2 (SSS2), a cardiac sinus node malfunction, or Brugada syndrome 8 (BRGDA8), a tachyarrhythmia syndrome. Within aa 1084-1203, human HCN4 shares 92% and 93% aa sequence identity with mouse and rat HCN4, respectively.

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