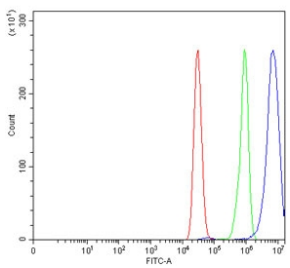
HCN4 Antibody (RQ6995)

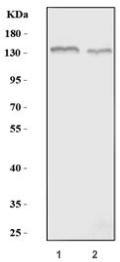
Catalog No.	Formulation	Size
RQ6995	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9Y3Q4
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This HCN4 antibody is available for research use only.



Flow cytometry testing of human MCF7 cells with HCN4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HCN4 antibody.



Western blot testing of 1) rat brain and 2) mouse brain tissue lysate with HCN4 antibody. Predicted molecular weight ~129 kDa but can be observed at up to ~160 kDa.

Description

Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4 is a protein that in humans is encoded by the HCN4 gene. This gene encodes a member of the hyperpolarization-activated cyclic nucleotide-gated potassium channels. The encoded protein shows slow kinetics of activation and inactivation, and is necessary for the cardiac pacemaking process. This channel may also mediate responses to sour stimuli. Mutations in this gene have been linked to sick sinus syndrome 2, also known as atrial fibrillation with bradyarrhythmia or familial sinus bradycardia. Two pseudogenes have been identified on chromosome 15.

Application Notes

Optimal dilution of the HCN4 antibody should be determined by the researcher.

Immunogen

Recombinant human HCN4 protein (amino acids H909-L1203) was used as the immunogen for the HCN4 antibody.

Storage

After reconstitution, the HCN4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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