

ARG24121 anti-HCN4 antibody [N114/10]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [N114/10] recognizes HCN4
Tested Reactivity	Hu, Ms, Rat, Rb
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Specificity	~130kDa. No cross-reactivity against other HCNs.
Host	Mouse
Clonality	Monoclonal
Clone	N114/10
Isotype	IgG1
Target Name	HCN4
Species	Rat
Immunogen	Fusion protein amino of rat HCN4
Conjugation	Un-conjugated
Alternate Names	HCN4; Hyperpolarization Activated Cyclic Nucleotide Gated Potassium Channel 4; Potassium/Sodium Hyperpolarization-Activated Cyclic Nucleotide-Gated Channel 4; Hyperpolarization Activated Cyclic Nucleotide-Gated Potassium Channel 4; Hyperpolarization Activated Cyclic Nucleotide-Gated Cation Channel 4; BRGDA8; EIG18; SSS2

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	1:100
	IHC-Fr	1:1000
	IHC-P	1:1000
	WB	1:1000
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

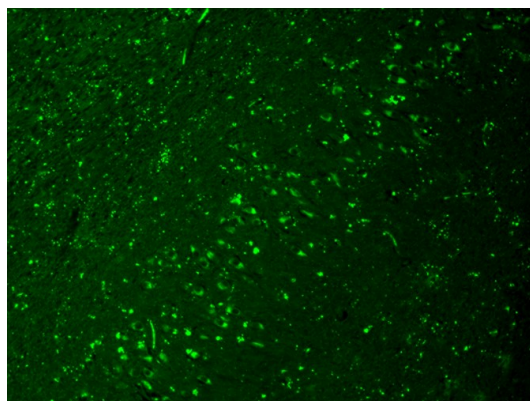
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide

Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

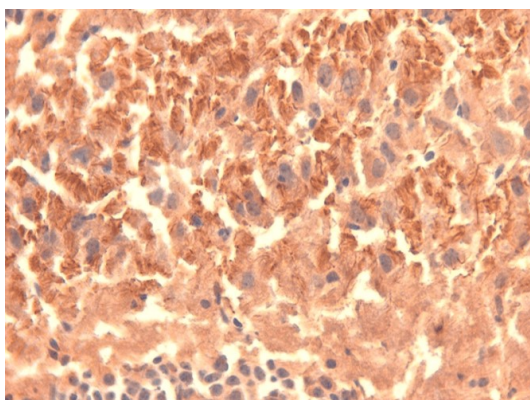
Gene Symbol	HCN4
Gene Full Name	Hyperpolarization Activated Cyclic Nucleotide Gated Potassium Channel 4
Background	This gene encodes a member of the hyperpolarization-activated cyclic nucleotide-gated potassium channels. The encoded protein shows slow kinetics of activation and inactivation, and is necessary 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.
Function	Hyperpolarization-activated ion channel with very slow activation and inactivation exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (I _f) that regulate the rhythm of heart beat. May contribute to the native pacemaker currents in neurons (I _h). May mediate responses to sour stimuli.
PTM	Glycoprotein, Phosphoprotein
Cellular Localization	Cell membrane, Membrane

Images



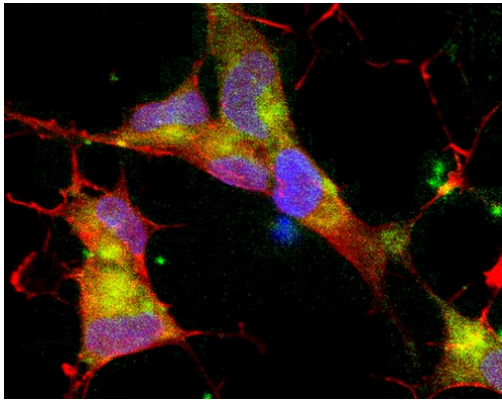
ARG24121 anti-HCN4 antibody [N114/10] IHC-P image

Immunohistochemistry: Human hippocampus stained with ARG24121 anti-HCN4 antibody [N114/10] at 1:1000 dilution.



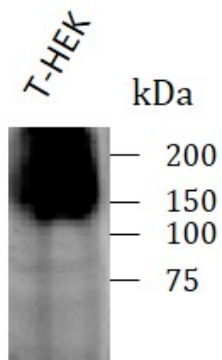
ARG24121 anti-HCN4 antibody [N114/10] IHC-Fr image

Immunohistochemistry: Mouse brain stained with ARG24121 anti-HCN4 antibody [N114/10] at 1:1000 dilution.



ARG24121 anti-HCN4 antibody [N114/10] ICC/IF image

Immunofluorescence: SH-SY5Y stained with ARG24121 anti-HCN4 antibody [N114/10] at 1:100 dilution.



ARG24121 anti-HCN4 antibody [N114/10] WB image

Western blot: T-HEK stained with ARG24121 anti-HCN4 antibody [N114/10] at 1:1000 dilution.