




Product datasheet

Anti-HCN1 antibody [N70/28] - C-terminal (FITC)
 ab183408

Overview

Product name	Anti-HCN1 antibody [N70/28] - C-terminal (FITC)
Description	Mouse monoclonal [N70/28] to HCN1 - C-terminal (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: IHC-Fr, WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Rabbit 
Immunogen	Recombinant fragment corresponding to Rat HCN1 aa 778-910 (C terminal). NCBI Accession No. NP_445827.1 Sequence: TPGSSSTPKNEVHKSTQALHNTHLTREVRPLSASQPSL PHEVSTMISRPHP TVGESLASIPQPVATVHSTGLQAGSRSTVPQRVTLFRQ MSSGAIPPNRGV PPAPPPAAVQRESPSVLNKDPDAEKPRFASNL Database link: Q9JKBO <div style="text-align: right;">  Run BLAST with  Run BLAST with </div>
Positive control	IHC-P: Mouse cerebellum tissue; Human hippocampus tissue. IHC-Fr: Mouse brain tissue section.
General notes	The clone number has been updated from S70-28 to N70/28, both clone numbers name the same antibody clone.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide

	Constituents: 50% Glycerol, 49% PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N70/28
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab183408** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use a concentration of 0.1 - 1 µg/ml.
WB		1/1000. Predicted molecular weight: 102 kDa. 1 µg/mL of ab183408 was sufficient for detection of rat HCN1 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
IHC-P		1/1000.
ICC/IF		1/100.

Target

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). Activated by cAMP, and at 10-100 times higher concentrations, also by cGMP. May mediate responses to sour stimuli.
Tissue specificity	Detected in brain, in particular in amygdala and hippocampus, while expression in caudate nucleus, corpus callosum, substantia nigra, subthalamic nucleus and thalamus is very low or not detectable. Detected at very low levels in muscle and pancreas.
Sequence similarities	Belongs to the potassium channel HCN family. Contains 1 cyclic nucleotide-binding domain.
Domain	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	Membrane.

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