abcam

Product datasheet

Anti-HCN1 antibody - C-terminal ab229340

3 References 8 Images

Overview

Product name Anti-HCN1 antibody - C-terminal

Description Rabbit polyclonal to HCN1 - C-terminal

Host species Rabbit

Tested applications Suitable for: IHC-Fr, ICC/IF, IHC-P, WB

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Recombinant fragment within Human HCN1 (C terminal). The exact sequence is proprietary.

Database link: **O60741**

Positive control WB: Mouse and rat brain tissue extracts; SK-N-AS whole cell extract. IHC-P: Mouse retina and

brain tissues; rat brain tissue. ICC/IF: Rat DIV9 E18 primary cortical neurons. IHC-Fr: Frozen

mouse cerebellum and hippocampus tissues.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.00

Preservative: 0.025% Proclin 300

Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

1

Applications

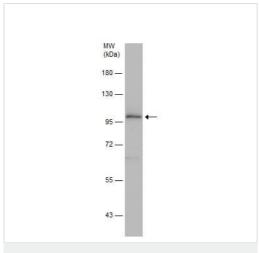
The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab229340 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		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000.
WB		1/500 - 1/3000. Predicted molecular weight: 99 kDa.

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.	

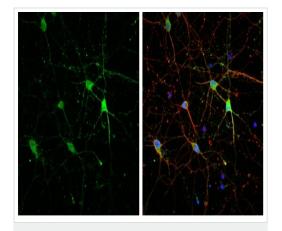


Western blot - Anti-HCN1 antibody - C-terminal (ab229340)

Anti-HCN1 antibody - C-terminal (ab229340) at 1/1000 dilution + SK-N-AS (human neuroblastoma cell line) whole cell extract at 30 μg

Predicted band size: 99 kDa

7.5% SDS-PAGE gel.

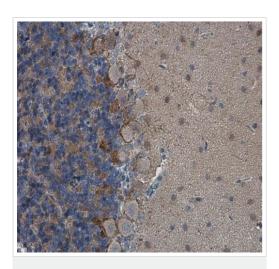


Immunocytochemistry/ Immunofluorescence - Anti-HCN1 antibody - C-terminal (ab229340)

4% paraformaldehyde-fixed DIV9 rat E18 primary cortical neurons cells stained for HCN1 (green) using ab229340 at 1/500 dilution in ICC/IF.

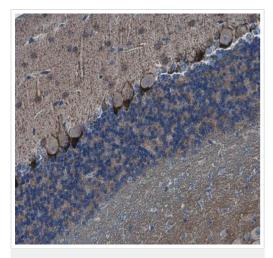
Beta Tubulin 3/ Tuj1 (red).

Nuclear counterstain: Fluoroshield with DAPI (blue).



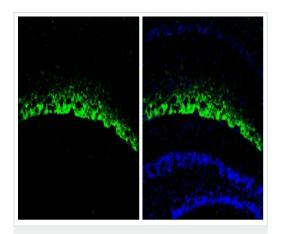
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HCN1 antibody - C-terminal (ab229340)

Paraffin-embedded rat brain tissue stained for HCN1 using ab229340 at 1/500 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HCN1 antibody - C-terminal (ab229340)

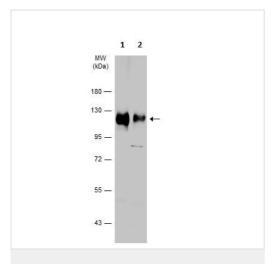
Paraffin-embedded mouse brain tissue stained for HCN1 using ab229340 at 1/500 dilution in immunohistochemical analysis.



Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody - C-terminal (ab229340)

Frozen-sectioned adult mouse hippocampus tissue stained for HCN1 (green) using ab229340 at 1/250 dilution in immunohistochemical analysis.

Nuclear counterstain: Fluoroshield with DAPI (blue)



Western blot - Anti-HCN1 antibody - C-terminal (ab229340)

All lanes : Anti-HCN1 antibody - C-terminal (ab229340) at 1/1000 dilution

Lane 1 : Mouse brain tissue extract

Lane 2 : Rat brain tissue extract

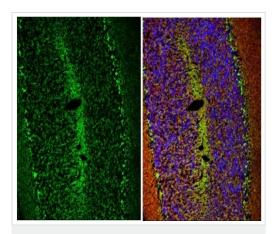
Lysates/proteins at 50 µg per lane.

Secondary

All lanes: HRP-conjugated anti-rabbit lgG antibody

Predicted band size: 99 kDa

7.5% SDS-PAGE gel.

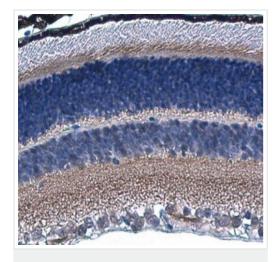


Immunohistochemistry (Frozen sections) - Anti-HCN1 antibody - C-terminal (ab229340)

Frozen-sectioned adult mouse cerebellum tissue stained for HCN1 (green) using ab229340 at 1/250 dilution in immunohistochemical analysis.

beta Tubulin 3/ TUJ1 (red).

Nuclear counterstain: Fluoroshield with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HCN1 antibody - C-terminal (ab229340)

Paraffin-embedded mouse retina tissue stained for HCN1 using ab229340 at 1/800 dilution in immunohistochemical abalysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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