abcam

Product datasheet

Anti-ASIC1 antibody ab236770

1 Image

Overview

Product name	Anti-ASIC1 antibody
Description	Rabbit polyclonal to ASIC1
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to Human ASIC1 aa 195-297. Database link: P78348
Positive control	ICC/IF: HepG2 cells.
General notes	Protein previously known as ACCN2.

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: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab236770** in the following tested applications.

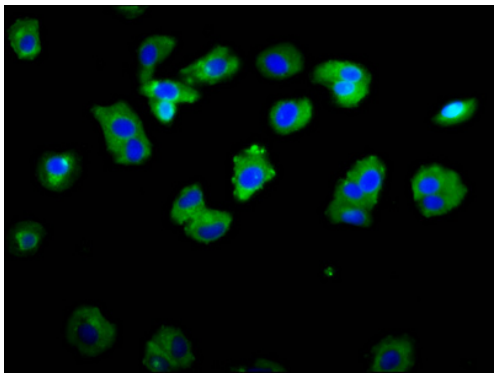
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/200.

Target

Function	Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Also permeable for Ca(2+), Li(+) and K(+). Generates a biphasic current with a fast inactivating and a slow sustained phase. Mediates glutamate-independent Ca(2+) entry into neurons upon acidosis. This Ca(2+) overloading is toxic for cortical neurons and may be in part responsible for ischemic brain injury. Heteromeric channel assembly seems to modulate channel properties. Functions as a postsynaptic proton receptor that influences intracellular Ca(2+) concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. Modulates activity in the circuits underlying innate fear.
Tissue specificity	Expressed in most or all neurons.
Sequence similarities	Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. ACCN2 subfamily.
Post-translational modifications	Phosphorylation by PKA regulates interaction with PRKCABP and subcellular location. Phosphorylation by PKC may regulate the channel.
Cellular localization	Cell membrane. Localizes in synaptosomes at dendritic synapses of neurons. Colocalizes with DLG4.

Images



Immunocytochemistry/ Immunofluorescence - Anti-ASIC1 antibody (ab236770)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for ASIC1 using ab236770 at 1/133 dilution in ICC/IF.

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubated with the primary antibody overnight at 4°C. Secondary used is an Alexa-Fluor®488-conjugated Goat Anti-Rabbit IgG (H+L).

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