

ASIC3 Polyclonal Antibody

Catalog # AP73383

Product Information

Application WB
Primary Accession Q9UHC3
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 58905

Additional Information

Gene ID 9311

Other Names ASIC3; ACCN3; SLNAC1; TNAC1; Acid-sensing ion channel 3; ASIC3; hASIC3;

Amiloride-sensitive cation channel 3; Neuronal amiloride-sensitive cation

channel 3; Testis sodium channel 1; hTNaC1

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Name ASIC3 (HGNC:101)

Function Forms pH-gated heterotrimeric sodium channels that act as postsynaptic

excitatory receptors in the nervous system (PubMed: 10842183,

PubMed: <u>11587714</u>, PubMed: <u>9744806</u>, PubMed: <u>9886053</u>). Upon extracellular

acidification, these channels generate a biphasic current with a fast

inactivating and a slow sustained phase (PubMed: 10842183,

PubMed:9744806, PubMed:9886053). ASIC3 is more sensitive to protons and gates between closed, open, and desensitized states faster than other ASICs (By similarity). Displays high selectivity for sodium ions but can also permit the permeation of other cations (PubMed:9744806, PubMed:9886053). As a neuronal acid sensor, probably contributes to mechanoreception, acid nociception, and heat nociception (By similarity). By forming heterotrimeric channels with ASIC2, generates a biphasic current with a fast inactivating and a slow sustained phase, which in sensory neurons is proposed to mediate the pain induced by acidosis that occurs in ischemic, damaged or inflamed tissues (By similarity).

Cellular Location Cell membrane; Multi-pass membrane protein Cytoplasm

{ECO:0000250|UniProtKB:Q6X1Y6}. Note=Preferentially expressed at the plasma membrane of the soma and cellular processes of neurons (By similarity). In part cytoplasmic in cochlea cells (By similarity) Localized in

specialized sensory nerve endings (By similarity)

{ECO:0000250|UniProtKB:O35240, ECO:0000250|UniProtKB:Q6X1Y6}

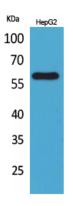
Tissue Location Expressed by sensory neurons. Strongly expressed in brain, spinal cord, lung,

lymph nodes, kidney, pituitary, heart and testis.

Background

Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Generates a biphasic current with a fast inactivating and a slow sustained phase. In sensory neurons is proposed to mediate the pain induced by acidosis that occurs in ischemic, damaged or inflamed tissue. May be involved in hyperalgesia. May play a role in mechanoreception. Heteromeric channel assembly seems to modulate channel properties.

Images



Western Blot analysis of HepG2 cells using ASIC3 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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