

ACCN1 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP9213c

Specification

ACCN1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

<u>Q16515</u>

ACCN1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 40

Other Names

Acid-sensing ion channel 2, ASIC2, Amiloride-sensitive brain sodium channel, Amiloride-sensitive cation channel 1, neuronal, Amiloride-sensitive cation channel neuronal 1, Brain sodium channel 1, BNC1, BNaC1, Mammalian degenerin homolog, ASIC2, ACCN, ACCN1, BNAC1, MDEG

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP9213c was selected from the Center region of human ACCN1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ACCN1 Antibody (Center) Blocking Peptide - Protein Information

Name ASIC2 (<u>HGNC:99</u>)

Function

Forms pH-gated trimeric sodium channels that act as postsynaptic excitatory sensors in the nervous system (PubMed:10842183, PubMed:23034652, PubMed:8626462, PubMed:8626462, PubMed:8631835). Upon extracellular acidification, these channels generate rapid, transient inward currents that fully desensitize (PubMed:10842183). Highly

selective for sodium, they are permeable to other cations (PubMed:8626462, PubMed:<a



href="http://www.uniprot.org/citations/8631835" target="_blank">8631835). By forming heterotrimeric channels with ASIC1, could contribute to synaptic plasticity, learning, and memory. Additionally, as acid sensors at nerve terminals, plays a role in mechanosensation and phototransduction (By similarity).

Cellular Location Cell membrane; Multi-pass membrane protein {ECO:0000269|Ref.10}. Note=Localized at the plasma membrane of neurons, in the soma and punctated peripheral processes {ECO:0000250|UniProtKB:Q925H0}

Tissue Location Expressed in brain, cerebellum, trigeminal sensory ganglia and also detected in testis.

ACCN1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Blocking Peptides</u>

ACCN1 Antibody (Center) Blocking Peptide - Images

ACCN1 Antibody (Center) Blocking Peptide - Background

ACCN1 encodes a member of the degenerin/epithelial sodium channel (DEG/ENaC) superfamily. The members of this family are amiloride-sensitive sodium channels that contain intracellular N and C termini, 2 hydrophobic transmembrane regions, and a large extracellular loop, which has many cysteine residues with conserved spacing. The member encoded by this protein may play a role in neurotransmission. In addition, a heteromeric association between this member and ACCN3 (variant 1) has been observed to co-assemble into proton-gated channels sensitive to gadolinium.

ACCN1 Antibody (Center) Blocking Peptide - References

Bashari, E., et.al., Am. J. Physiol., Cell Physiol. 296 (2), C372-C384 (2009)Chai, S., et.al., J. Biol. Chem. 282 (31), 22668-22677 (2007)