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ACCN1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9213c

Specification

ACCN1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q16515

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

Synonyms ACCN, ACCN1, BNAC1, MDEG

Function
Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Also permeable for Li(+) and K(+). Generates a biphasic current with a fast inactivating and a slow sustained phase. Heteromeric channel assembly seems to modulate.

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=Localized at the plasma membrane of neurons, in the soma and punctated peripheral processes.

Tissue Location
Brain and spinal cord. Isoform 1 is also detected in testis, liver, colon and ovary.

ACCN1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

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)