

Anti-ACCN1 Picoband Antibody
Catalog # ABO11664**Specification**

Anti-ACCN1 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q16515
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Acid-sensing ion channel 2(ASIC2) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ACCN1 Picoband Antibody - 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

Calculated MW

57709 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

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

Tissue Specificity

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

Protein Name

Acid-sensing ion channel 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human ACCN1 (112-147aa ELLALLDVNLQIPDPHLADPSVLEALRQKANFKHYK), different from the related mouse and rat

sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-ACCN1 Picoband Antibody - 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.

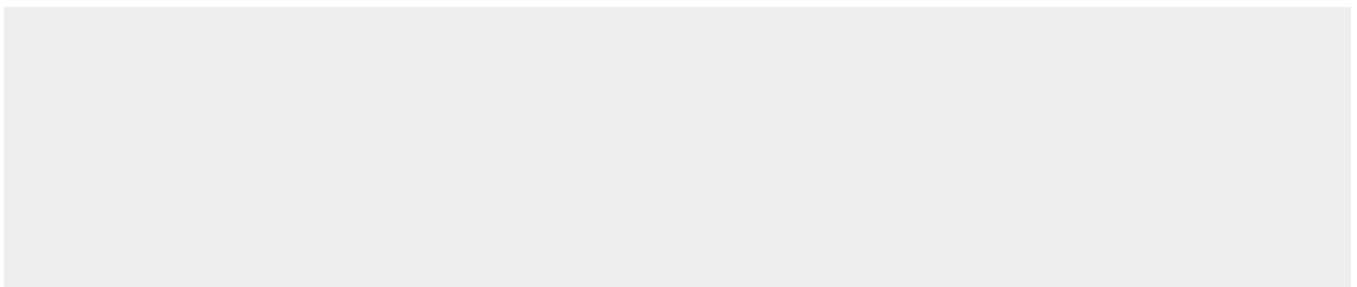
Tissue Location

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

Anti-ACCN1 Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ACCN1 Picoband Antibody - Images



Western blot analysis of ACCN1 expression in rat testis extract (lane 1) and MCF-7 whole cell lysates (lane 2). ACCN1 at 65KD was detected using rabbit anti- ACCN1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11664) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-ACCN1 Picoband Antibody - Background

Amiloride-sensitive cation channel 1, neuronal, also known as ASIC2, is a protein that in humans is encoded by the ACCN1 gene. This gene 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 gene may play a role in neurotransmission. In addition, a heteromeric association between this member and acid-sensing (proton-gated) ion channel 3 has been observed to co-assemble into proton-gated channels sensitive to gadolinium. Alternative splicing has been observed at this locus and two variants, encoding distinct isoforms, have been identified.