

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

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**Anti-ACCN1 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q16515</a> |
| 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<br>

**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.

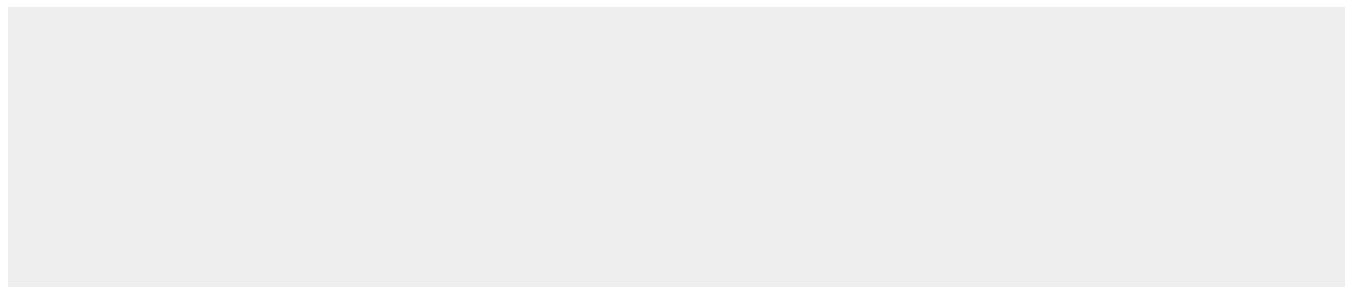
**Tissue Location**

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.