

**ACCN2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9270b****Specification**

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**ACCN2 Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">P78348</a>
Other Accession	<a href="#">P55926</a> , <a href="#">Q6N XK8</a> , <a href="#">Q1XA76</a>
Reactivity	Human
Predicted	Chicken, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59909
Antigen Region	500-526

**ACCN2 Antibody (C-term) - Additional Information****Gene ID** 41**Other Names**

Acid-sensing ion channel 1, ASIC1, Amiloride-sensitive cation channel 2, neuronal, Brain sodium channel 2, BNaC2, ASIC1, ACCN2, BNAC2

**Target/Specificity**

This ACCN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 500-526 amino acids from the C-terminal region of human ACCN2.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ACCN2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ACCN2 Antibody (C-term) - Protein Information**

**Name** ASIC1 ([HGNC:100](#))

**Function** Forms voltage-independent, pH-gated trimeric sodium channels that act as postsynaptic excitatory receptors in the nervous system, playing a crucial role in regulating synaptic plasticity, learning, and memory (PubMed:[21036899](#), PubMed:[32915133](#), PubMed:[34319232](#)). Upon extracellular pH drop this channel elicits transient, fast activating, and completely desensitizing inward currents (PubMed:[21036899](#)). Displays high selectivity for sodium ions but can also permit the permeation of other cations (PubMed:[21036899](#)). Regulates more or less directly intracellular calcium concentration and CaMKII phosphorylation, and thereby the density of dendritic spines. Modulates neuronal activity in the circuits underlying innate fear (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q6NXX8}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q6NXX8}. Note=Isolated in synaptosomes from the dendritic synapses of neurons {ECO:0000250|UniProtKB:Q6NXX8}

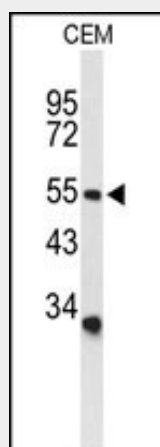
**Tissue Location**

Expressed in neurons throughout the central and peripheral nervous system.

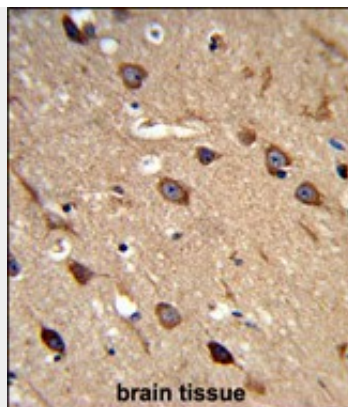
**ACCN2 Antibody (C-term) - Protocols**

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

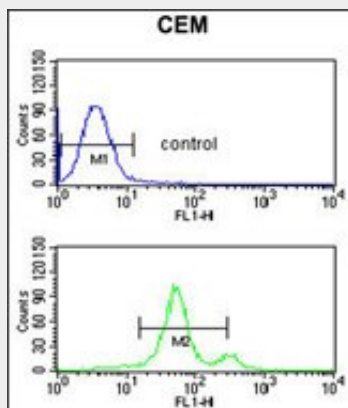
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ACCN2 Antibody (C-term) - Images**

Western blot analysis of ACCN2 Antibody (C-term) (Cat. #AP9270b) in CEM cell line lysates (35ug/lane). ACCN2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ACCN2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ACCN2 Antibody (C-term) (Cat. #AP9270b) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### ACCN2 Antibody (C-term) - Background

ACCN2 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 is expressed in most if not all brain neurons, and it may be an ion channel subunit; however, its function as an ion channel remains unknown.

### ACCN2 Antibody (C-term) - References

- Sherwood, T., et.al., J. Biol. Chem. 284 (41), 27899-27907 (2009)
- Kapoor, N., et.al., J. Biol. Chem. 284 (36), 24526-24541 (2009)
- Samways, D.S., et.al., Cell Calcium 45 (4), 319-325 (2009)