

ACCN1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9213c**Specification**

ACCN1 Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q16515
Other Accession	Q62962 , Q925H0
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57709
Antigen Region	120-148

ACCN1 Antibody (Center) - 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

This ACCN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 120-148 amino acids from the Central region of human ACCN1.

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

ACCN1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ACCN1 Antibody (Center) - Protein Information

Name ASIC2 ([HGNC:99](#))

Function Forms pH-gated trimeric sodium channels that act as postsynaptic excitatory sensors in the nervous system (PubMed:[10842183](#), PubMed:[23034652](#), 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:[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}

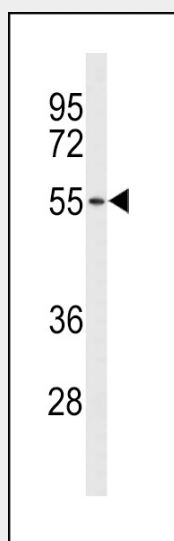
Tissue Location

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

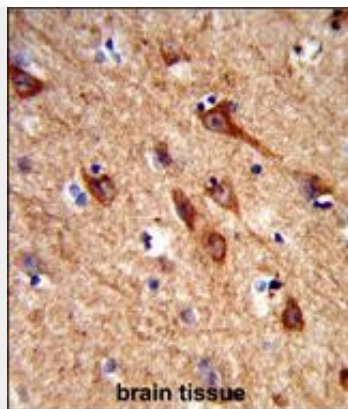
ACCN1 Antibody (Center) - Protocols

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

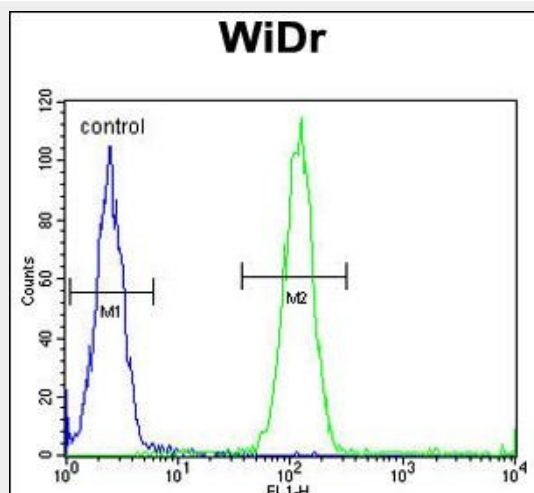
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACCN1 Antibody (Center) - Images

Western blot analysis of ACCN1 Antibody (Center) (Cat. #AP9213c) in NCI-H460 cell line lysates (35ug/lane). ACCN1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ACCN1 Antibody (Center), 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.



ACCN1 Antibody (Center) (Cat. #AP9213c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ACCN1 Antibody (Center) - 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) - 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)