ACCN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACCN1, Polyclonal Antibody
Full Product Name	ACCN1, ID (ASIC2, ACCN, ACCN1, BNAC1, MDEG, Acid-sensing ion channel 2, Amiloride-sensitive brain sodium channel, Amiloride-sensitive cation channel 1, neuronal, Amiloride-sensitive cation channel neuronal 1, Brain sodium channel 1, Mammalian degenerin ho
Product Gene Name	anti-ACCN1 antibody
Product Synonym Names	ASIC2; ACCN; ACCN1; BNAC1; MDEG; Acid-sensing ion channel 2; Amiloride-sensitive brain sodium channel; Amiloride-sensitive cation channel 1; neuronal; Amiloride-sensitive cation channel neuronal 1; Brain sodium channel 1; Mammalian degenerin homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62,887 Da
OMIM	U50352 mRNA
3D Structure	ModBase 3D Structure for Q16515
Immunogen	ACCN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127~156 amino acids from the Center region of human ACCN1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ACCN1 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-ACCN1 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ACCN1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-ACCN1 antibody	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.
Product References and Citations for anti-ACCN1 antibody	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).
Other Notes	Small volumes of anti-ACCN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACCN1 purchase	MBS6270843 is an antibody targeting ACCN1. Also known as ACCN1, ID (ASIC2, ACCN, ACCN1, BNAC1, MDEG, Acid-sensing ion channel 2, Amiloride-sensitive brain sodium channel, Amiloride-sensitive cation channel 1, neuronal, Amiloride-sensitive cation channel neuronal 1, Brain sodium channel 1, Mammalian degenerin ho. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACCN1. It may not necessarily be applicable to this product.

NCBI GI #	9998944
NCBI GeneID	40
NCBI Accession #	NP_001085.2
UniProt Primary Accession #	Q16515
UniProt Secondary Accession #	Q13553; Q6DJU1; Q8N3E2; E9PBX2
UniProt Related Accession #	Q16515
GenBank Nucleotide #	NM_001094.4
NCBI Official Full Name	acid-sensing ion channel 2 isoform MDEG1
NCBI Official Synonym Full Names	acid sensing ion channel subunit 2
NCBI Official Symbol	ASIC2
NCBI Official Synonym Symbols	ACCN; BNC1; MDEG; ACCN1; BNaC1; ASIC2a; hBNaC1
UniProt Protein Name	Acid-sensing ion channel 2
UniProt Synonym Protein Names	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
UniProt Gene Name	ASIC2
UniProt Synonym Gene Names	ACCN; ACCN1; BNAC1; MDEG; ASIC2; BNC1; BNaC1
NCBI Protein Information	acid-sensing ion channel 2
NCBI Summary for ACCN1	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. [provided by RefSeq, Feb 2012]

UniProt Comments for ACCN1	ASIC2: 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. Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. ASIC2 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; Channel, cation; Membrane protein, integral; Membrane protein, multi-pass; Transporter; Transporter, ion channel Chromosomal Location of Human Ortholog: 17q11.2-q12 Cellular Component: plasma membrane Molecular Function: amiloride-sensitive sodium channel activity; protein binding Biological Process: central nervous system development; monovalent inorganic cation transport; peripheral nervous system development; regulation of blood coagulation; regulation of gene expression; sensory perception of sour taste; synaptic transmission
Research Articles on ACCN1	**1.** ASICs may enhance susceptibility to epileptogenesis in the piriform cortex.
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