

Datasheet for ABIN2776229
anti-ASIC1 antibody (N-Term)



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5 Images

Overview

Quantity:	100 µL
Target:	ASIC1 (ACCN2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ASIC1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACCN2
Sequence:	MELKAEEEEV GGVQPVSIIQA FASSSTLHGL AHIFS YERLS LKRALWALCF
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ACCN2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ASIC1 (ACCN2)
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Target Details

Alternative Name: ACCN2 ([ACCN2 Products](#))

Background: ACCN2 is the cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. ACCN2 is also permeable for Ca²⁺, Li⁺ and K⁺. ACCN2 generates a biphasic current with a fast inactivating and a slow sustained phase. ACCN2 mediates glutamate-independent Ca²⁺ entry into neurons upon acidosis. This Ca²⁺ overloading is toxic for cortical neurons and may be in part responsible for ischemic brain injury. Heteromeric channel assembly seems to modulate channel properties. ACCN2 functions as a postsynaptic proton receptor that influences intracellular Ca²⁺ concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. It modulates activity in the circuits underlying innate fear. 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 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. Alternative splicing of this gene generates 2 transcript products.

Alias Symbols: ASIC, ASIC1A, BNaC2, hBNaC2, ACCN2

Protein Interaction Partner: ATXN3, PICK1, ASIC1, ASIC2, PRKACA, STOM, STOML1,

Protein Size: 574

Molecular Weight: 65 kDa

Gene ID: 41

NCBI Accession: [NM_020039](#), [NP_064423](#)

UniProt: [P78348](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 574 AA

Restrictions: For Research Use only

Handling

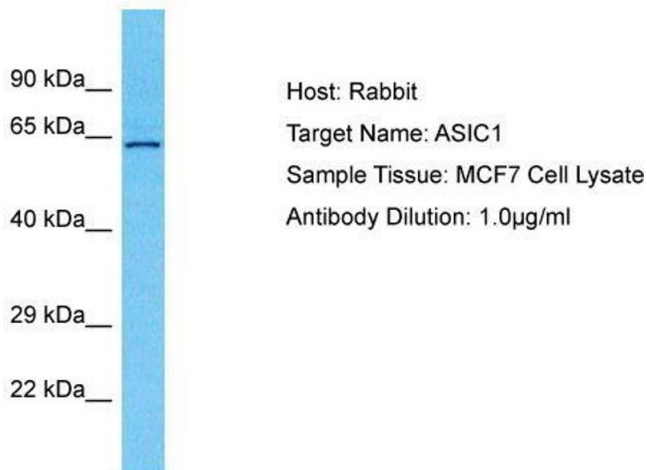
Format: Liquid

Concentration: Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

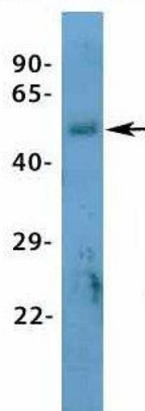
Images



Western Blotting

Image 1. Host: Rabbit Target Name: ASIC1 Sample Type: MCF7 Whole Cell lysates Antibody Dilution: 1.0ug/ml

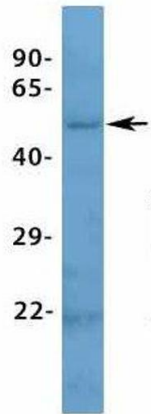
ACCN2



Western Blotting

Image 2. Host: Rabbit Target Name: ACCN2 Sample Type: Human Fetal Heart Antibody Dilution: 1.0ug/ml

ACCN2



Western Blotting

Image 3. Host: Rabbit Target Name: ACCN2 Sample Type: Human Fetal Muscle Antibody Dilution: 1.0ug/ml

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2776229.