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Product datasheet for TA329036

ACCN1 (ASIC2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide DLKESPSEGSLQPSSIQC, corresponding to amino acid residues 2-18 of human ASIC2a. Intracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.025% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	acid sensing ion channel subunit 2
Database Link:	NP_001085 Entrez Gene 25364 Rat Q16515

View online »

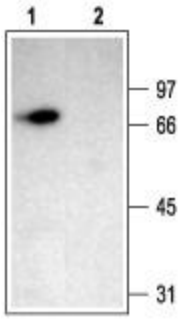
Background: ASIC2a is a member of a family of Na+ channels that are activated by external protons. The family includes another three members ASIC1, ASIC2 and ASIC4. The ASICs are in fact part of a larger superfamily termed degenerin/epithelial Na+ channels (DEG/ENaC) and share with it the same basic characteristics: two transmembrane spanning domains, a large extracellular domain and short intracellular N and C termini. There are two recognized splice variants of the ASIC2 gene that differ on their N-termini, ASIC2a and ASIC2b that have different tissue distributions and functions. ASIC2a is highly expressed in the central nervous system (CNS) and is less expressed in the peripheral nervous system (PNS) while ASIC2b is prominently expressed in the latter. The functional channel is composed of 4 subunits that can be assembled as homo or heterotetramers with the other ASIC subunits. The ASIC2b splice variant does not appear to be functional when expressed alone but it can modify the properties of ASIC2a and ASIC3 when co-expressed. The ASIC2 protein has been proposed to be involved in mechanosensation and sensory transduction.

Synonyms: ACCN; ACCN1; ASIC2a; BNaC1; BNC1; hBNaC1; MDEG

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Taste transduction

Product images:



Western blot analysis of rat brain membranes: 1. Anti-ASIC2a antibody, (1:200). 2. Anti-ASIC2a antibody, preincubated with the control peptide antigen.