OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA329037

Asic1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CQKEAKRSSADKGVALSLDD, corresponding to amino acid residues 469-488 of rat ASIC1?. Intracellular, C-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, 0.05% 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 1
Database Link:	NP_077068 Entrez Gene 79123 Rat P55926

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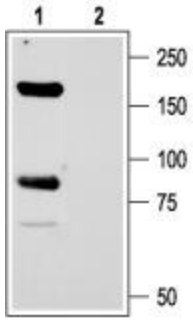
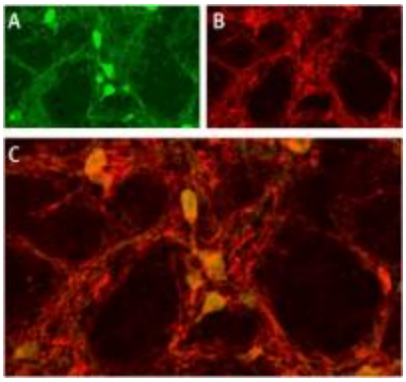
Background: ASIC1 is a member of a family of Na+ channels that are activated by external protons. The family includes another three members ASIC2, ASIC3 and ASIC4. The ASICs are in fact part of a larger superfamily termed epithelial Na+ channels (EnaC) and share with it the same basic characteristics: two transmembrane spanning domains, a large extracellular domain and short intracellular N and C termini. There are two recognized splice variants of the ASIC1 gene that differ on their N-termini, ASIC1a and ASIC1b that have different tissue distributions and functions. The ASIC1 responds to a decrease in extracellular pH with an inward cation current that is quickly inactivated despite the continuous presence of protons in the medium. Lately, ASIC1 has been implicated in processes such as learning and memory in the central nervous system.

Synonyms: Accn2; AI843610; ASIC; ASIC1a; B530003N02Rik; BNaC2

Product images:



Western blot analysis of rat brain membranes: 1. Anti-ASIC1 antibody, (1:200). 2. Anti-ASIC1 antibody, preincubated with the control peptide antigen.



Expression of ASIC1 in rat brain. Immunohistochemical staining of rat globus pallidus using Anti-ASIC1 antibody. A. Parvalbumin (PV) positive neurons are shown (green). B. Neurons with typically enmeshed dendritic trees stain intensely for ASIC1 (red). C. double labeling with mouse anti-Parvalbumin (green) reveals strong co-localization of PV with ASIC1.