

Product datasheet for **TA329038**

Asic4 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 CKIKFAEEDAKPKEKEAGDE, corresponding to amino acid residues 7-26 of rat ASIC4.? 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, 0.05% NaN ₃ .
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 4
Database Link:	NP_071570 Entrez Gene 63882 Rat Q9JHS6



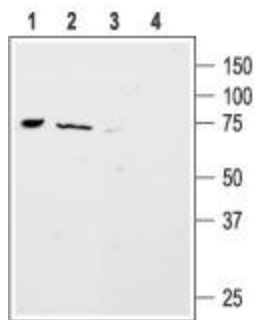
[View online »](#)

Background:

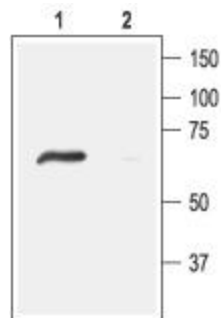
Acid-sensing ion channels (ASICs) are Na⁺ channels activated by external protons. ASIC4 is a member of the ASIC family that includes another three members: ASIC1, ASIC2 and ASIC3. The ASIC family is in fact part of a large channel superfamily known as degenerin/epithelial Na⁺ channels (DEG/ENaC) and share the same basic characteristics: two transmembrane spanning domains, a large extracellular domain and short intracellular N and C termini. The functional ASIC channel is composed of 4 subunits, which can form either a homo or heterotetramer. The subunit composition of the tetrameric channel will determine its biophysical properties such as pH sensitivity, inactivation kinetics and channel pharmacology. In fact, the ASIC4 protein does not appear to function as a proton-gated channel when expressed alone in heterologous systems and therefore a modulatory role for this subunit has been proposed. Expression of the ASIC4 protein has been detected in brain, pituitary gland, spinal cord and inner ear. The functional significance of ASIC4 expression in these tissues still awaits clarification.

Synonyms:

ACCN4; BNAC4

Product images:

Western blot analysis of ND7/23 cell line (lanes 1 and 3) and rat brain (lanes 2 and 4) lysates: 1, 2. Anti-ASIC4 antibody, (1:200). 3, 4. Anti-ASIC4 antibody, preincubated with the control peptide antigen.



Western blot analysis of rat DRG lysates: 1. Anti-ASIC4 antibody, (1:200). 2. Anti-ASIC4 antibody, preincubated with the control peptide antigen.