Product Name: ASIC1 Rabbit Polyclonal Antibody
Catalog #: APRab07216

Summary

Production Name	ASIC1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ASIC1 ACCN2 BNAC2
Alternative Names	Acid-sensing ion channel 1 (ASIC1;Amiloride-sensitive cation channel 2, neuronal;Brain sodium channel 2;BNaC2)
Gene ID	41.0
SwissProt ID	P78348.Synthetic peptide from human protein at AA range: 220-280

Application

Dilution Ratio	WB 1:500-2000,IHC-p 1:500-200, ELISA 1:10000-20000.
Molecular Weight	70-75kD

Background

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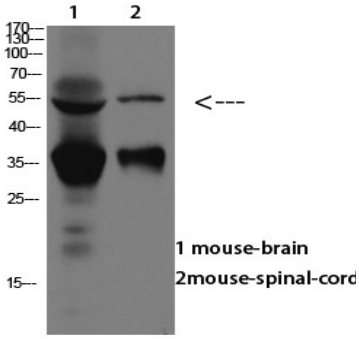
This gene encodes a member of the acid-sensing ion channel (ASIC) family of proteins, which are part of the degenerin/epithelial sodium channel (DEG/ENaC) superfamily. Members of the ASIC family are sensitive to amiloride and function in neurotransmission. The encoded proteins function in learning, pain transduction, touch sensation, and development of memory and fear. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2012],alternative products:The splice variant from ASIC1a described in mouse and rat, which gives rise to an isoform with different N-termini (Asic1b), does not seem to exist in human,function:Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Also permeable for Ca(2+), Li(+) and K(+). Generates a biphasic current with a fast inactivating and a slow sustained phase. Mediates glutamate-independent Ca(2+) entry into neurons upon acidosis. This Ca(2+) overloading is toxic for cortical neurons and may be in part responsible for ischemic brain injury. Heteromeric channel assembly seems to modulate channel properties. Functions as a postsynaptic proton receptor that influences intracellular Ca(2+) concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. Modulates activity in the circuits underlying innate fear.,miscellaneous:Potentiated by Ca(2+), Mg(2+), Ba(2+) and multivalent cations. Inhibited by anti-inflammatory drugs like salicylic acid (By similarity). Potentiated by FMRFamide-related neuropeptides. PH dependence may be regulated by serine proteases.,PTM:Phosphorylation by PKA regulates interaction with PRKCABP and subcellular location. Phosphorylation by PKC may regulate the channel.,similarity:Belongs to the amiloride-sensitive sodium channel family.,subcellular location:Localizes in synaptosomes at dendritic synapses of neurons. Colocalizes with DLG4.,subunit:Homotetramer or heterotetramer with other ASIC proteins (Probable). Interacts with STOM and ACCN1 (By similarity). Interacts with PRKCABP.,tissue specificity:Expressed in most or all neurons.,

Research Area

Image Data



Western blot analysis of SW480 lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000

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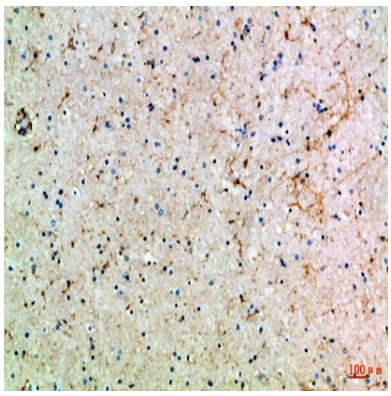

Immunohistochemical analysis of paraffin-embedded Human-brain, antibody was diluted at 1:100

Note

For research use only.