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Accn2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10776

Product Information

Application	WB
Primary Accession	Q6NXK8
Other Accession	NM_009597, NP_033727
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59668

Additional Information

Gene ID	11419
Alias Symbol	AI843610, ASIC, ASIC1, ASIC1a, B530003N02Rik, BNaC2, Accn2
Other Names	Acid-sensing ion channel 1, ASIC1, Acid-sensing ion channel, Amiloride-sensitive cation channel 2, neuronal, Brain sodium channel 2, BNaC2, Asic1, Accn2, Asic, Bnac2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Accn2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Accn2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Asic1 {ECO:0000312|MGI:MGI:1194915}
Function	Forms voltage-independent, pH-gated trimeric sodium channels that act as postsynaptic excitatory receptors in the nervous system, playing a crucial role in regulating synaptic plasticity, learning, and memory (PubMed:11988176, PubMed:12843249, PubMed:15369669, PubMed:17060608). Upon extracellular pH drop this channel elicits transient, fast activating, and completely desensitizing inward currents (PubMed:15369669). Displays high selectivity for sodium ions but can also permit the permeation of other cations (PubMed:15369669). Regulates more or less directly intracellular calcium concentration and CaMKII phosphorylation, and thereby the density

of dendritic spines (PubMed:15369669, PubMed:17060608). Modulates neuronal activity in the circuits underlying innate fear (PubMed:17662962).

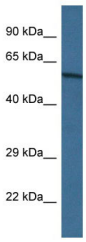
Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P78348} Postsynaptic cell membrane. Cell projection, dendrite. Note=Isolated in synaptosomes from the dendritic synapses of neurons.

Tissue Location

Expressed in brain areas receiving strong excitatory corticofugal input. In hippocampus, expressed in the hilus of the dentate gyrus. In the cerebral cortex expressed in anterior and posterior cingulate cortex, sensory and motor cortices. In the sensory cortex strongest expression is detected in the whisker barrel field. In sensorimotor and cingulate cortex expression is elevated in layer III Also expressed in basal ganglia, striatum, ventral pallidum, olfactory tubercle, and nucleus accumbens. Weakly expressed in thalamus with the exception of the habenula and the medial septal nuclei. In olfactory bulb, preferentially expressed in the glomerular layer, within glomeruli. Expressed in cerebellum in the molecular and granule cell layers. Strongly expressed in amygdala complex, particularly in the lateral and basolateral nuclei. Isoform 1 is more abundant in brain compared to isoform 2 (at protein level). Expressed in the nodose ganglion and dorsal root ganglion. Expressed in dendritic spine cells

Images



WB Suggested Anti-Accn2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart