

ASIC1 Polyclonal Antibody

Catalog Number PA1-46418

Product data sheet

Details	
Size	50 µL
Host/Isotope	Guinea pig / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Synthetic peptide corresponding to residues A(3) G S E L D E G D D S P R D L V(18) of rat ASIC Beta.
Conjugate	Unconjugated
Form	Liquid
Concentration	Conc. Not Determined
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Rat
Tested Applications	
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:500

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**

Suggested positive control: rat spinal cord. Staining was blocked by preabsorption with the cognate peptide.

**Background/Target Information**

This gene encodes a member of the degenerin/epithelial sodium channel (DEG/ENaC) superfamily. The members of this family are amiloride-sensitive sodium channels that contain intracellular N and C termini, 2 hydrophobic transmembrane regions, and a large extracellular loop, which has many cysteine residues with conserved spacing. The member encoded by this gene is expressed in most if not all brain neurons, and it may be an ion channel subunit; however, its function as an ion channel remains unknown. Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. ASIC1 is permeable for Ca(2+), Li(+) and K(+) and is expressed in dorsal root ganglia, sciatic nerves, olfactory bulb, neo and allocortical regions, dentate granule cells, pyramidal cells of CA1-CA3 subfields of the hippocampal formation, habenula, basolateral amygdaloid nuclei, and in the Purkinje and granule cells of the cerebellum. It is diffusely detected over most other regions of the basal ganglia, including thalamic nuclei, substantia nigra, striatum and globus pallidus, hypothalamus, midbrain, pons, medulla and choroid plexus. Isoform 3 is expressed only in dorsal root ganglion while isoform 1 is expressed in DRG, spinal chord, trigeminal ganglia and the trigeminal mesencephalic nucleus.

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