

ACCN2 polyclonal antibody

Catalog: BS90019

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Isoform 2 and isoform 3 function as proton-gated sodium channels; they are activated by a drop of the extracellular pH and then become rapidly desensitized. The channel generates a biphasic current with a fast inactivating and a slow sustained phase. Has high selectivity for sodium ions and can also transport lithium ions with high efficiency. Isoform 2 can also transport potassium, but with lower efficiency. It is nearly impermeable to the larger rubidium and cesium ions. Isoform 3 can also transport calcium ions. Mediates glutamate-independent Ca²⁺ entry into neurons upon acidosis. This Ca²⁺ 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 Ca²⁺ concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. Modulates activity in the circuits underlying innate fear. Isoform 1 does not display proton-gated cation channel activity.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

60 kDa

Swiss-Prot:

P78348(Human) Q6NXX8(Mouse) P55926(Rat)

Purification&Purity:

Peptide affinity purified.

Applications:

WB:1:500-1:2,000

IHC:1:50-1:200

FC:1:50-1:100

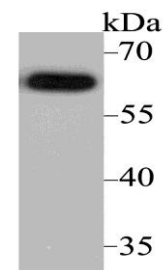
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

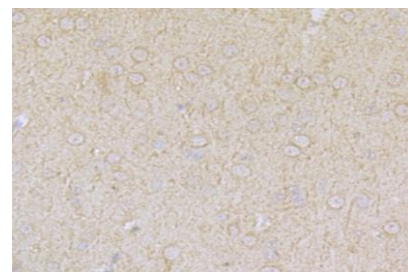
Specificity:

ACCN2 polyclonal antibody detects endogenous levels of ACCN2 protein.

DATA:



Western blot analysis of ACCN2 on SH-SY-5Y cell lysate using anti-ACCN2 antibody at 1/2,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-ACCN2 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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