

ASIC1 polyclonal antibody

Catalog: BS31084

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Acid-sensing ion channel 1: 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. Upon extracellular pH drop this channel elicits transient, fast activating, and completely desensitizing inward currents. Displays high selectivity for sodium ions but can also permit the permeation of other cations. Regulates more or less directly intracellular calcium concentration and CaMKII phosphorylation, and thereby the density of dendritic spines. Modulates neuronal activity in the circuits underlying innate fear (By similarity)

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~59.9 kDa

Swiss-Prot:

P78348

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/2000)

Storage&Stability:

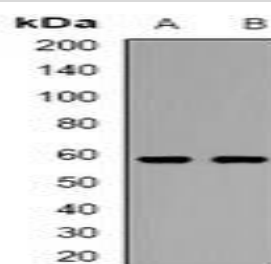
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of ASIC1 protein.

DATA:



Western blot analysis of ASIC1 expression in A549 (A), HeLa (B), HepG2 (C), mouse liver (D), rat liver (E) whole cell lysates.

Immunofluorescent analysis of ASIC1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Note:

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

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