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Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1)

Recombinant Antibody
Catalog # APR10786

Specification

Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) - Product Information

Application	**FC, E, FTA**
Primary Accession	P78348
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**145.22 KDa**

Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) - Additional Information

Target/Specificity
ASIC1

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Storage
-80°C for 2 years under sterile conditions -20°C for 1 year under sterile conditions Avoid repeated freeze-thaw cycles.

Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) - Protein Information

Name ASIC1

Synonyms ACCN2, BNAC2

Function
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 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.

Cellular Location
Cell membrane; Multi-pass membrane protein Note=Localizes in synaptosomes at dendritic synapses of neurons Colocalizes with DLG4 (By similarity).

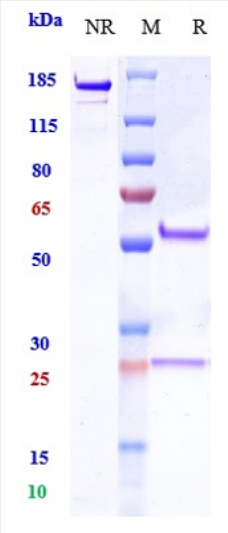
Tissue Location
Expressed in most or all neurons.

Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) - Protocols

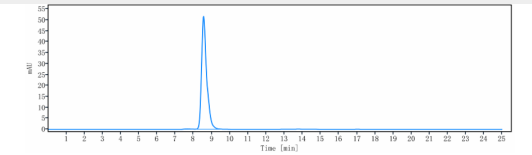
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) - Images



Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-ASIC1 Reference Antibody (Regeneron patent anti-ASIC1)is more than 95%

,determined by SEC-HPLC.