

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, Kinetics, Animal Model

Primary Accession
Reactivity
Human
Clonality
Monoclonal
Isotype

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.

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

Name ASIC1 (HGNC:100)

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:21036899, PubMed:32915133, PubMed:34319232). Upon extracellular pH drop this channel elicits transient, fast activating, and completely desensitizing inward currents (PubMed:21036899). Displays high selectivity for sodium ions but can also permit the permeation of other cations (PubMed:21036899). 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).

Cellular Location

Cell membrane; Multi-pass membrane protein Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q6NXK8}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q6NXK8}. Note=Isolated in synaptosomes from the dendritic synapses of neurons {ECO:0000250|UniProtKB:Q6NXK8}

Tissue Location

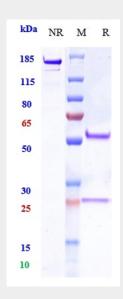
Expressed in neurons throughout the central and peripheral nervous system.

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

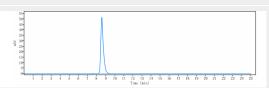
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- 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.