

Product Information

Recombinant Human Anti-Human ASIC1 Monoclonal Antibody

Cat. No.: **HOM-19222**

This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant humanized antibody expressed in CHO binding to human ASIC1.

Antigen Description

Acid-Sensing Ion Channels (ASICs) are neuronal voltage-insensitive cationic channels activated by extracellular protons. ASIC proteins are a subfamily of the ENaC/Deg superfamily of ion channels. To date six proteins of the ASIC family have been identified that arise from four genes, ASIC1, ASIC2, ASIC3, and ASIC4. ASIC1a, 1b and 2a, 2b are splice variants. ASICs are trimeric and can be made up of different combinations of subunits. ASIC2b is non functional on its own but modulates channel activity when participating in heteromultimers. ASIC4 has no known function. All ASICs are expressed in the peripheral nervous system while ASIC1a, 2a, 2b and 4 are expressed in the central nervous system. ASICs are Na⁺ permeable with ASIC1a showing low Ca⁺⁺ permeability.

Target

ASIC1

Species Reactivity

Human

Type

Human IgG

Expression Host

CHO

Clone

Monoclonal

Purity

>95.0% as determined by analysis by RP-HPLC & analysis by SDS-PAGE.

Applications

ELISA, WB, IHC, FCM, IP, IF. Optimal dilutions/concentrations should be determined by the end user.

Molecular Weight

145.41 kDa

Stability

Samples are stable for up to twelve months from date of receipt at -20 °C and are stable for six months at 4 °C.

Storage

Store it under sterile conditions at -20 °C upon receiving. Recommend to pack the antibody into smaller quantities for optimal storage.

Ship

2-8°C, BLUE ICE

ANTIGEN GENE INFORMATION

Gene Name

[ASIC1 acid-sensing \(proton-gated\) ion channel 1 \[Homo sapiens \]](#)

Official Symbol

ASIC1

Synonyms

ASIC; ACCN2; BNaC2

Gene ID

[41](#)

mRNA Refseq

[NM_020039.3](#)

Protein Refseq

[NP_064423.2](#)

MIM

[602866](#)

UniProt ID

P78348

Chromosome Location

12q12

Function

ligand-gated sodium channel activity;protein binding;