

Anti-ASIC1 Antibody

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anti-ASIC1 Antibody is a humanized monoclonal antibody that binds specifically to the extracellular domain of acid-sensing ion channel 1 (ASIC1). This product blocks mediated cation currents (primarily sodium ions), effectively reducing neuronal hyperexcitability and acidotoxicity induced by tissue acidosis. It serves as an important pharmacological tool for researching chronic pain, ischemic stroke, and neurodegenerative diseases.
Targets(IC50)	Others
In vitro	In electrophysiological and cell-based assays, Anti-ASIC1 Antibody exhibits high binding affinity to the extracellular loop of human ASIC1 and effectively inhibits pH 5.0-evoked inward currents in transfected HEK293 cells or primary cortical neurons in a concentration-dependent manner [1].
In vivo	In pharmacological studies using rodent models of ischemic stroke (such as middle cerebral artery occlusion, MCAO) or inflammatory pain, systemic or central administration of Anti-ASIC1 Antibody resulted in a significant reduction in infarct volume and a marked alleviation of pain-related behaviors by preventing acidotoxicity and neuronal death, demonstrating its potent neuroprotective and analgesic efficacy [1] [2].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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