



Rabbit Anti-ASIC3 antibody

SL12132R

Product Name ASIC3**Chinese Name** 酸敏感离子 Channel protein3 抗体**Alias**

ASICs3; ACCN 3; ACCN3; ASIC3_HUMAN; Acid sensing ion channel 3; Acid-sensing ion channel 3; Amiloride sensitive cation channel 3; Amiloride sensitive cation channel 3 testis; Amiloride-sensitive cation channel 3; ASIC 3; ASIC3; DRASIC; hASIC 3; hASIC3; hTNaC 1; hTNaC1; Modulatory subunit of ASIC2a; Neuronal amiloride sensitive cation channel 3; Neuronal amiloride sensitive cation channel 3; Proton gated cation channel subunit; SLNAC 1; SLNAC1; Testis sodium channel subunit 1; TNaC1.

Research Area

Neurobiology Channel protein The cell membrane 受体

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

(predicted: Human, Mouse, Rat, Pig, Horse,)

Applications

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

59kDa

Cellular localization

cytoplasmic The cell membrane Extracellular matrix

Form

Liquid

Concentration

1mg/ml

immunogen

KLH conjugated synthetic peptide derived from human ASIC3: 342-420/531 <Extracellular>

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by amiloride. Generates a biphasic current with a fast inactivating and a slow sustained phase. In some studies proposed to mediate the pain induced by acidosis that occurs in ischemic, damaged or inflamed tissues. It is involved in hyperalgesia. May play a role in mechanoreception. Heteromeric channel assembly may modulate channel properties.

Function:

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Subunit:

Homotrimer or heterotrimer with other ASIC proteins (By similarity). Interacts with STOM and (By similarity). Interacts with LIN7B, MAGI1/BAIAP1, GOPC and ASIC2.

Subcellular Location:

Cell membrane. Cytoplasm. Cell surface expression may be stabilized by interaction with LIN7B. Cytoplasmic retention by interaction with DLG4. In part cytoplasmic in cochlea cells.

Product Detail

Tissue Specificity:

Expressed by sensory neurons. Strongly expressed in brain, spinal chord, lung, lymph nodes, kidney, heart and testis.

Post-translational modifications:

Phosphorylated by PKA. Phosphorylated by PKC. In vitro, PRKCABP/PICK-1 is necessary for the phosphorylation and activation of a ACCN3/ASIC3-ACCN1/ASIC2b channel, but does not activate the homomeric ACCN3 channel.

DISEASE:

Expressed in fetal tissues, expression increases in lung and kidney adult tissues.

Similarity:

Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. ACCN3 subfamily.

SWISS:

Q9UHC3

Gene ID:

9311

Database links:

[Entrez Gene: 9311](#) Human

[Entrez Gene: 171209](#) Mouse

[Entrez Gene: 286920](#) Rat

[Omim: 611741](#) Human

[SwissProt: Q9UHC3](#) Human

[SwissProt: Q6X1Y6](#) Mouse

[SwissProt: O35240](#) Rat

[Unigene: 647113](#) Human

[Unigene: 299636](#) Mouse

[Unigene: 24225](#) Rat