Datasheet for ABIN7042914

anti-ASIC1 antibody (Intracellular)

4 Images

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Overview

Quantity:	25 µL
Target:	ASIC1 (ACCN2)
Binding Specificity:	AA 469-488, Intracellular
Reactivity:	Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This ASIC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC)

Product Details

Purpose:	A Guinea Pig Polyclonal Antibody to ASIC1 Channel
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CQKEAKRSSADKGVALSLDD, corresponding to amino acid residues 469-488 of rat ASIC1
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	This antibody will recognize all known ASIC1 isoforms.
Predicted Reactivity:	Human - identical, mouse - 19,20 amino acid residues identical

Product Details

Characteristics:	Guinea pig Anti-ASIC1 Antibody is directed against an epitope of rat ASIC1. Guinea pig Anti-ASIC1 Antibody raised in guinea pig can be used in western blot, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize ASIC1 from mouse, rat, and human samples. The antigen used to immunize guinea pigs is the same as Anti-ASIC1 Antibody (ABIN7042915, ABIN7045236 and ABIN7045237) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	ASIC1 (ACCN2)
Alternative Name:	ASIC1 (ACCN2 Products)
Background:	Acid-sensing ion channel 1, Amiloride-sensitive brain sodium channel, BNaC2, ACCN2,ASIC1 is a member of a family of Na+ channels that are activated by external protons. The family includes four additional members: ASIC2, ASIC3, ASIC4 and ASIC5. The ASICs are in fact part of a larger superfamily named degenerin/epithelial Na+ channels (DEG/ENaC) and share with it the same basic characteristics: two transmembrane spanning domains, a large extracellular domain and short intracellular N- and C-termini.There are two recognized splice variants of the ASIC1 gene that differ on their N-termini, ASIC1a and ASIC1b that have different tissue distributions and functions. ASIC1 responds to a decrease in extracellular pH with an inward cation current that is quickly inactivated despite the continuous presence of protons in the medium. Recently, ASIC1 has been implicated in cognitive processes such as learning and memory. Alternative names: ASIC1, Acid-sensing ion channel 1, Amiloride-sensitive brain sodium channel, BNaC2, ACCN2
Gene ID:	79123
NCBI Accession:	NM_020039
UniProt:	P55926

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:300

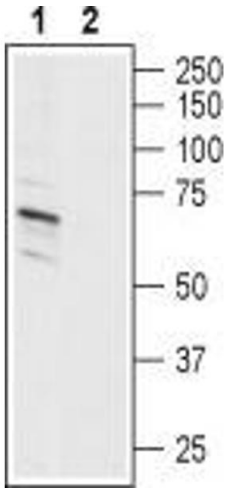
Application Details

	Application Dilutions Western blot wb: 1:600
Comment:	Cited Application: IHC|ICC Negative Control: (ABIN7234704) Blocking Peptide: (ABIN7234704)
Restrictions:	For Research Use only

Handling

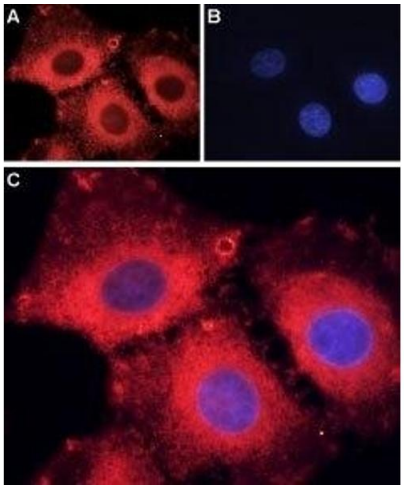
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



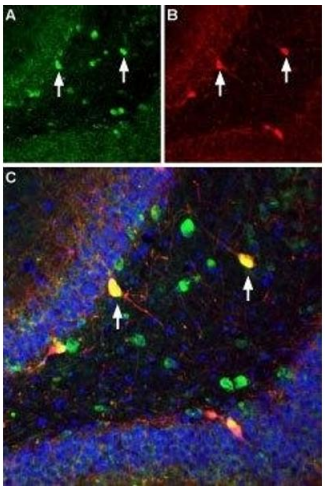
Western Blotting

Image 1. Western blot analysis of human SH-SY5Y neuroblastoma cell line lysate: - 1. Guinea pig Anti-ASIC1 Antibody (ABIN7042914, ABIN7045410 and ABIN7045411), (1:600).2. Guinea pig Anti-ASIC1 Antibody, preincubated with ASIC1 Blocking Peptide (#BLP-SC014).



Immunocytochemistry

Image 2. Expression of ASIC1 in rat C6 glioma cells - Immunocytochemical staining of fixed and permeabilized C6 glioma cells. A. Cells were stained using Guinea pig Anti-ASIC1 Antibody (ABIN7042914, ABIN7045410 and ABIN7045411), (1:200) followed by anti-guinea pig-AlexaFluor-594 secondary antibody (red). B. Cell nuclei were visualized using Hoechst 33342 (blue). C. Merge of the two images.



Immunohistochemistry

Image 3. Multiplex staining of ASIC1 and parvalbumin in rat hippocampus - Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using Guinea pig Anti-ASIC1 Antibody (ABIN7042914, ABIN7045410 and ABIN7045411), (1:300). A. ASIC1 (green) is detected in the hilus of the dentate gyrus (arrows). B. The same section was stained with anti-parvalbumin (red). C. Merge of the two images shows partial colocalization (orange, see arrows). Cell nuclei in the same section were stained with DAPI (Blue).

Please check the product details page for more images. Overall 4 images are available for ABIN7042914.