Datasheet for ABIN3042990

anti-ASIC3 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	ASIC3 (ACCN3)
Binding Specificity:	AA 56-73, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ASIC3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Acid-sensing ion channel 3(ASIC3) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human ASIC3(56-73aa FLYQVAERVRYYREFHHQ), different from the related rat and mouse sequences by two amino acids.
Sequence:	FLYQVAERVR YYREFHHQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Acid-sensing ion channel 3(ASIC3) detection. Tested with WB in Human,Mouse,Rat. Gene Name: acid-sensing(proton-gated) ion channel 3

Product Details

	Protein Name: Acid-sensing ion channel 3
Purification:	Immunogen affinity purified.

Target Details

Target:	ASIC3 (ACCN3)
Alternative Name:	ASIC3 (ACCN3 Products)
Background:	ASIC3(Acid-Sensing Ion Channel3), also known as TESTIS SODIUM CHANNEL 1(TNAC1) or DORSAL ROOT ACID-SENSING ION CHANNEL(DRASIC), is a protein that in humans is encoded by the ASIC3 gene. ASIC3 belongs to a family of acid-sensing channel proteins that are structurally related to epithelial sodium channel proteins and support acid-activated membrane currents. By radiation hybrid analysis, de Weille et al.(1998) mapped the ACCN3 gene to chromosome 7q35. De Weille et al.(1998) found that human ASIC3 supported an H(+)-gated cation current in COS cells with kinetics similar to those of rat Asic3. Babinski et al.(1999) expressed homomeric human ASIC3 channels in Xenopus oocytes and found that rapid reduction in extracellular pH resulted in a biphasic response characterized by a fast and rapidly desensitizing current followed by a slow and sustained current that returned to baseline only on return to physiologic pH . Synonyms: ACCN 3 antibody|ACCN3 antibody|ACCN3_HUMAN antibody|Acid sensing ion channel 3 antibody|Acid-sensing ion channel 3 antibody|Amiloride sensitive cation channel 3 antibody|Amiloride sensitive cation channel 3 testis antibody|Amiloride-sensitive cation channel 3 antibody|ASIC 3 antibody|ASIC3 antibody|DRASIC antibody|hASIC 3 antibody|hASIC3 antibody|hTNaC 1 antibody|hTNaC1 antibody|Modulatory subunit of ASIC 2a antibody|Modulatory subunit of ASIC2a antibody|Neuronal amiloride sensitive cation channel 3 antibody|Neuronal amiloride-sensitive cation channel 3 antibody|Proton gated cation channel subunit antibody|SLNAC 1 antibody|SLNAC1 antibody|Testis sodium channel 1 antibody|TNaC 1 antibody|TNaC1 antibody

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Mouse, Rat Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

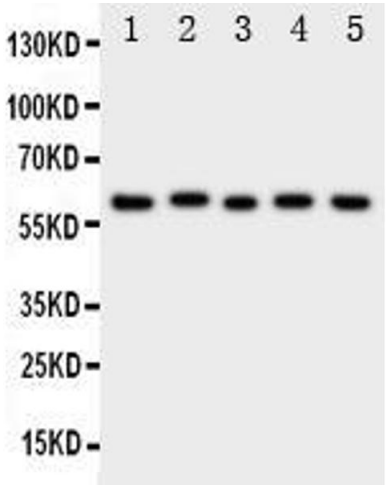
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:	Schuhmacher, Callejo, Srivats, Smith: "Naked mole-rat acid-sensing ion channel 3 forms nonfunctional homomers, but functional heteromers." in: **The Journal of biological chemistry**, Vol. 293, Issue 5, pp. 1756-1766, (2018) (PubMed).



Western Blotting

Image 1. Western blot analysis of ASIC3 using anti- ASIC3 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat Brain Tissue Lysate, Lane 2: Rat Testis Tissue Lysate, Lane 3: U87 Cell Lysate, Lane 4: NEURO Cell Lysate, Lane 5: SMMC Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- ASIC3 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ASIC3 at approximately 69KD. The expected band size for ASIC3 is at 58KD.

