

## Anti-Acid-sensing ion channel 3 ASIC3 Antibody Picoband®

Catalog Number: PA1938

### About ASIC3

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.

### Overview

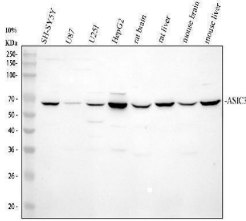
Product Name	Anti-Acid-sensing ion channel 3 ASIC3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Acid-sensing ion channel 3 ASIC3 Antibody catalog # PA1938. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UHC3

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ASIC3, different from the related rat and mouse sequences by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3ug/1x10 <sup>6</sup> cells, Human

## Anti-Acid-sensing ion channel 3 ASIC3 Antibody Picoband® (PA1938) Images



Western blot analysis of ASIC3 using anti-ASIC3 antibody (PA1938). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human U87 whole cell lysates, Lane 3: human U251 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat liver tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (PA1938) at 0.5 ug/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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for ASIC3 at approximately 59 kDa. The expected band size for ASIC3 is at 59 kDa.

## 2 Publications Citing This Product

1. PubMed ID: 10.1152/ajpregu.00148.2019, Effect of knockout of the ASIC3 on cardiovascular reflexes arising from hindlimb muscle in decerebrated rats
2. PubMed ID: 29237731, Schuhmacher LN, Callejo G, Srivats S, Smith ESJ. J Biol Chem. 2018 Feb 2;293(5):1756-1766. doi: 10.1074/jbc.M117.807859. Epub 2017 Dec 13. Naked mole-rat acid-sensing ion channel 3 forms nonfunctional homomers, but functional heteromers

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