

ASIC1 Antibody
ASIC1 Antibody, Clone S271-44
Catalog # ASM10261

Specification

ASIC1 Antibody - Product Information

Application	WB
Primary Accession	O6NXX8
Other Accession	NP_033727.1
Host	Mouse
Isotype	IgG1
Reactivity	Mouse, Rat
Clonality	Monoclonal

Description

Mouse Anti-Mouse ASIC1 Monoclonal IgG1

Target/Specificity

Detects ~60kDa.

Other Names

ACCN2 Antibody, Acid-sensing (proton-gated) ion channel Antibody, Acid-sensing ion channel 1 Antibody, Amiloride-sensitive cation channel 2 neuronal Antibody, BNAC2 Antibody, Brain sodium channel 2 Antibody

Immunogen

Fusion protein amino acids 460-526 (Cytoplasmic C-terminus) of mouse ASIC1

Purification

Protein G Purified

Storage **-20°C**

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature

Blue Ice or 4°C

Certificate of Analysis

1 µg/ml of SMC-427 was sufficient for detection of ASIC1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Cell Membrane

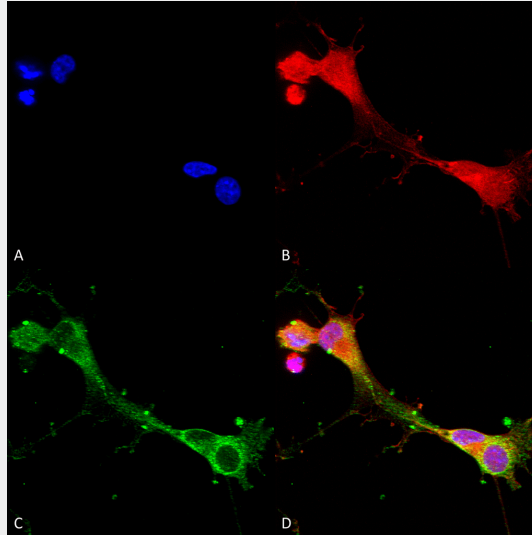
ASIC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

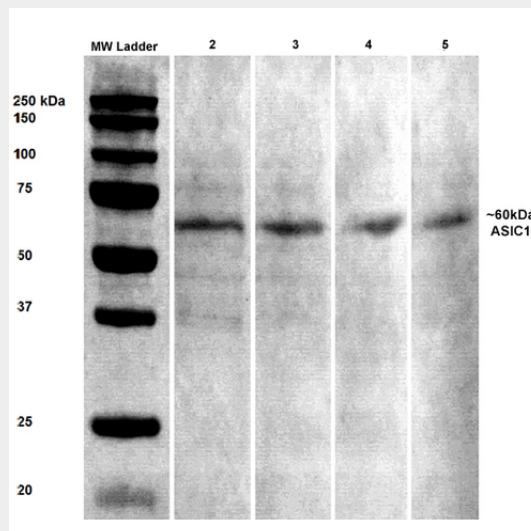
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ASIC1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-ASIC1 Monoclonal Antibody, Clone N271/44 (ASM10261). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-ASIC1 Monoclonal Antibody (ASM10261) at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) ASIC1 Antibody (D) Composite.



Western Blot analysis of Rat brain lysates showing detection of ASIC1 protein using Mouse Anti-ASIC1 Monoclonal Antibody, Clone N271/44 (ASM10261). Primary Antibody: Mouse Anti-ASIC1 Monoclonal Antibody (ASM10261) at 1:100, 1:250, 1:500, and 1:1000.

ASIC1 Antibody - Background

Acid sensing ion channel ASIC1, also designated ACCN2, BNAC2 and ASIC1a, is present in brain as a 4.3-kb transcript with localization to rat dorsal root ganglia. In situ hybridization of rat brain suggests that ASIC1 is most abundant in the main olfactory bulb, cerebral cortex, hippocampal formation, habenula, basolateral amygdaloid nuclei and cerebellum. ASIC1 and H⁺-gated currents may contribute to the development of fear and anxiety.

ASIC1 Antibody - References

1. Garcia-Anoveros J., Derfler B., Neville-Golden J., Hyman B.T. and Corey D.P. (1997) Proc. Natl. Acad. Sci. USA 94: 1459-1464.
2. Waldmann R., Champigny G., Bassilana F., Heurteaux C. and Lazdunski M. (1997) Nature. 386: 173-177.
3. Grunder S., Geisler H.S., Rainier S. and Fink J.K. (2001) Eur. J. Hum. Genet. 9:672-676.
4. Chen C.C., Zimmer A., Sun W.H., Hall J., Brownstein M.J. and Zimmer A. (2002) Proc. Natl. Acad. Sci. USA 99: 8992-8997.
5. Wemmie J.A., et al. (2004) Proc. Natl. Acad. Sci. USA 101: 3621-3626 .