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HCN3 Antibody
HCN3 Antibody, Clone S141-28
Catalog # ASM10184

Specification

HCN3 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	O88705
Other Accession	NP_032253.1
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**
Format	**APC**

Description
Mouse Anti-Mouse HCN3 Monoclonal IgG1

Target/Specificity
Detects ~90kDa. No cross-reactivity against other HCNs.

Other Names
KIAA1535 Antibody, potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 3 Antibody, hyperpolarization activated cyclic nucleotide-gated potassium channel 3 Antibody

Immunogen
Fusion protein amino acids 660-779 (C terminus) of mouse HCN3

Purification
Protein G Purified

Storage	**-20ºC**

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

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
1 µg/ml of SMC-306 was sufficient for detection of HCN3 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Membrane

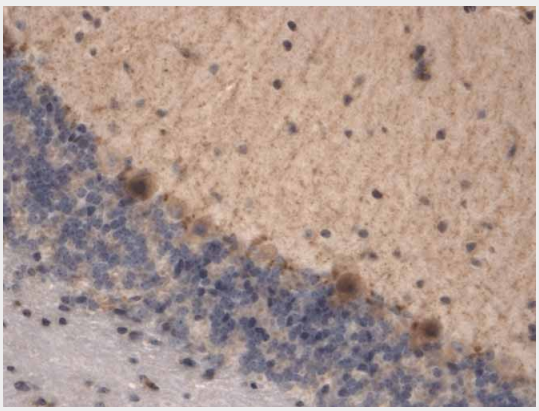
HCN3 Antibody - Protocols

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

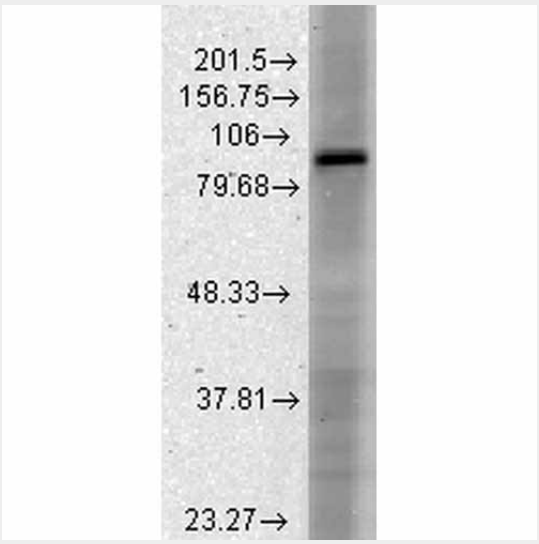
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HCN3 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-HCN3 Monoclonal Antibody, Clone S141-28 (ASM10184). Tissue: brain tissue. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN3 Monoclonal Antibody (ASM10184) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT. Localization: Granular staining of some Purkinje cells. Staining appears to be focal.



Western Blot analysis of Rat brain membrane lysate showing detection of HCN3 protein using Mouse Anti-HCN3 Monoclonal Antibody, Clone S141-28 (ASM10184). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HCN3 Monoclonal Antibody (ASM10184) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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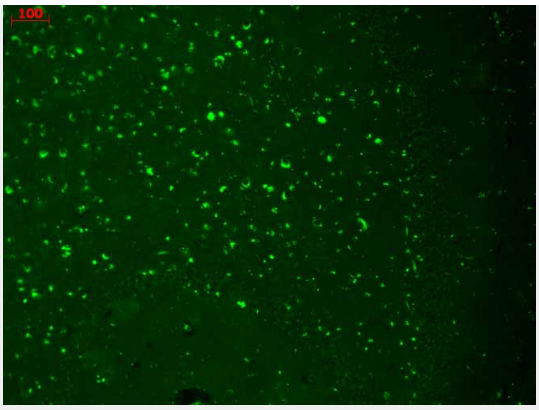

Immunohistochemistry analysis using Mouse Anti-HCN3 Monoclonal Antibody, Clone S141-28 (ASM10184). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HCN3 Monoclonal Antibody (ASM10184) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

HCN3 Antibody - Background

Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain (1).

HCN3 Antibody - References

1. Zong X., et al. (2005) J Biol Chem. 280(40): 34224-34233.