

#### **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 Huma

Reactivity Human, Mouse, Rat

Clonality Monoclonal

**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 -20°C

**Storage Buffer** 

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

Shipping Temperature Blue Ice or 4°C

**Certificate of Analysis** 

 $1 \mu g/ml$  of SMC-306 was sufficient for detection of HCN3 in 10  $\mu g$  of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse lgG:HRP as the secondary antibody.

**Cellular Localization** 

Membrane

#### **HCN3 Antibody - Protocols**

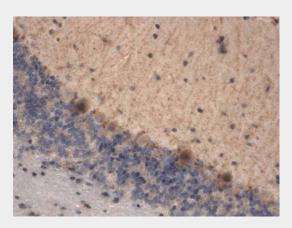
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

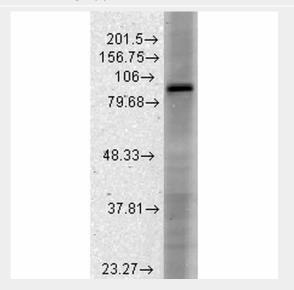


- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **HCN3 Antibody - Images**

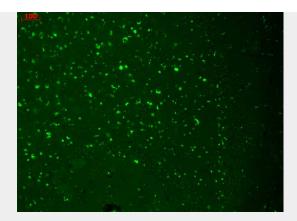


Immunohistochemistry analysis using Mouse Anti-HCN3 Monoclonal Antibody, Clone S141-28 (ASM10184). Tissue: brain tissue. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN3 Monoclonal Antibody (ASM10184) at 1:1000 for 1 hour at RT. Secondary Antibody: 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  $\mu$ g. 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.





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.