

**HCN4 Antibody**  
**HCN4 Antibody, Clone S114-10**  
**Catalog # ASM10198**

**Specification**

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**HCN4 Antibody - Product Information**

Application	<b>IHC, WB</b>
Primary Accession	<a href="#">O9JKA7</a>
Other Accession	<a href="#">NP_067690.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat, Rabbit</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Rat HCN4 Monoclonal IgG1

**Target/Specificity**

Detects ~130kDa. No cross-reactivity against other HCNs.

**Other Names**

Hyperpolarization activated cyclic nucleotide gated potassium channel 4 Antibody, HCN 4 Antibody, Potassium/sodium hyperpolarization activated cyclic nucleotide gated channel 4 Antibody

**Immunogen**

Fusion protein amino acids 1-019-1198 (c-terminus) of rat HCN4

**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-320 was sufficient for detection of HCN4 in 10 µg of COS cell lysate transiently transfected with HCN4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Membrane

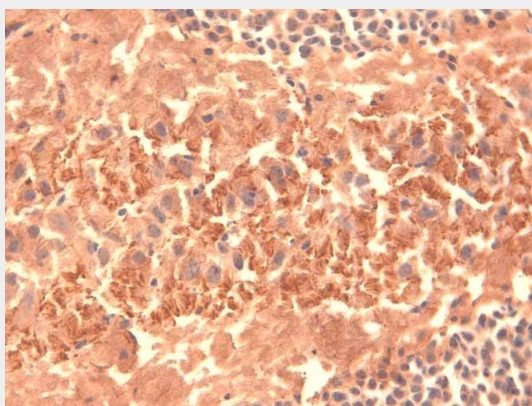
**HCN4 Antibody - Protocols**

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

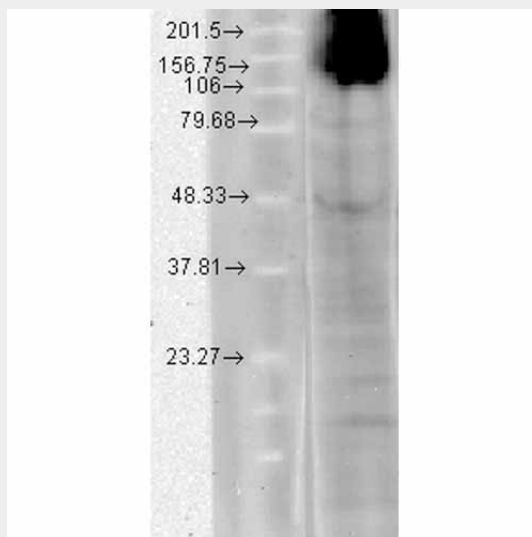
- [Western Blot](#)
- [Blocking Peptides](#)

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

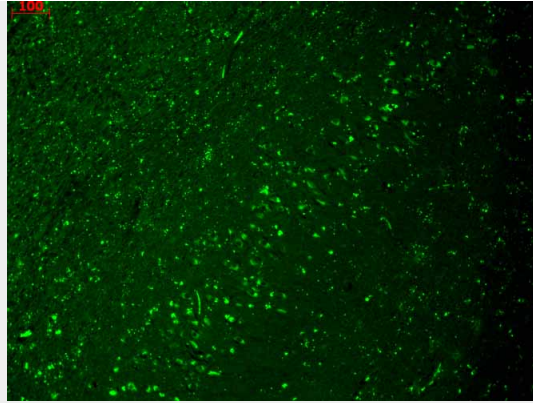
### HCN4 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone S114-10 (ASM10198). Tissue: frozen brain section. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (ASM10198) 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  $\mu$ l for 5 minutes at RT.



Western Blot analysis of Human T-HEK cell lysate showing detection of HCN4 protein using Mouse Anti-HCN4 Monoclonal Antibody, Clone S114-10 (ASM10198). Load: 15  $\mu$ g. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (ASM10198) 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-HCN4 Monoclonal Antibody, Clone S114-10 (ASM10198). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (ASM10198) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

#### **HCN4 Antibody - Background**

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

#### **HCN4 Antibody - References**

1. Zong X., et al. (2005) J Biol Chem. 280(40): 34224-34232