

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

HCN4 Antibody - Product Information

Application	WB, IHC, AM
Primary Accession	O9JKA7
Other Accession	NP_067690.1
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat, Rabbit
Clonality	Monoclonal
Format	ATTO 390

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

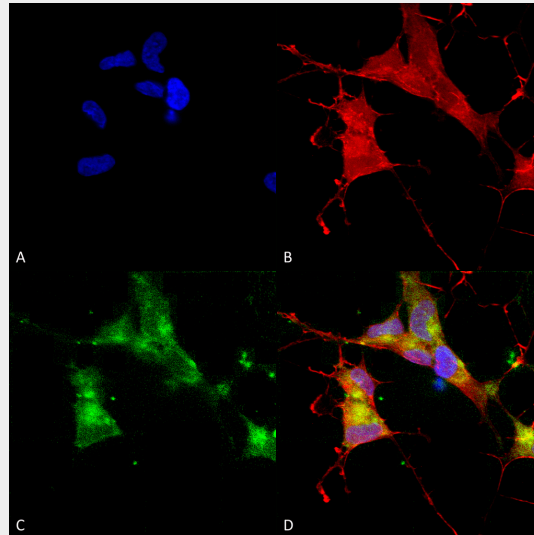
HCN4 Antibody - Protocols

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

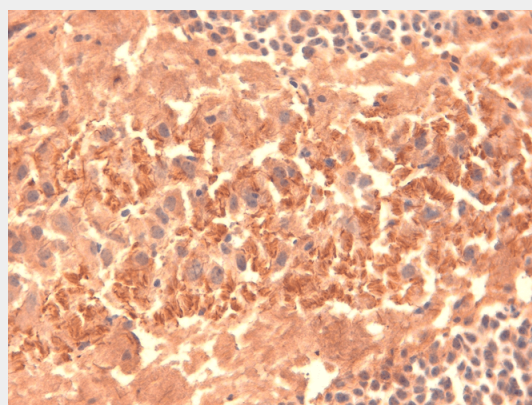
- [Western Blot](#)

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

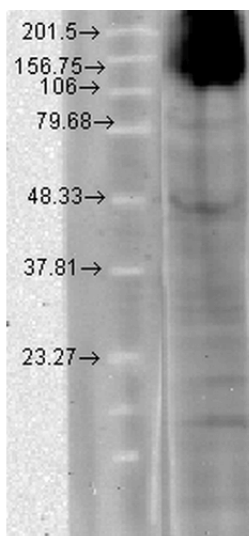
HCN4 Antibody - Images



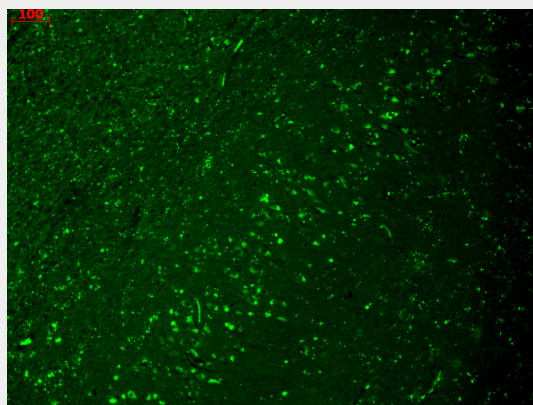
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone N114/10 (ASM10198). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (ASM10198) at 1:100 for overnight at 4°C with 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) HCN4 Antibody (D) Composite.



Immunohistochemistry analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone N114/10 (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 µl 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 N114/10 (ASM10198). Load: 15 μ 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 N114/10 (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