

# Product Datasheet

## HCN4 Antibody (S114/10) - BSA Free NBP2-12910

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-12910**

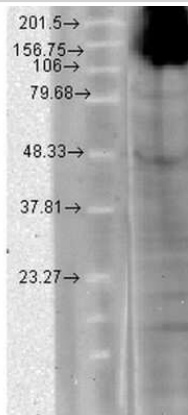
HCN4 Antibody (S114/10) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	S114/10
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Host	Mouse
Gene ID	10021
Gene Symbol	HCN4
Species	Human, Mouse, Rat, Rabbit
Specificity/Sensitivity	Detects approx 130 kDa. No cross-reactivity against other HCNs.
Immunogen	Fusion protein amino acids 1019-1198 (c-terminus) of rat HCN4
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Microarray
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Microarray
Application Notes	1 ug/mL of HCN4 Antibody was sufficient for detection of HCN4 in 10 ug of COS cell lysate transiently transfected with HCN4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

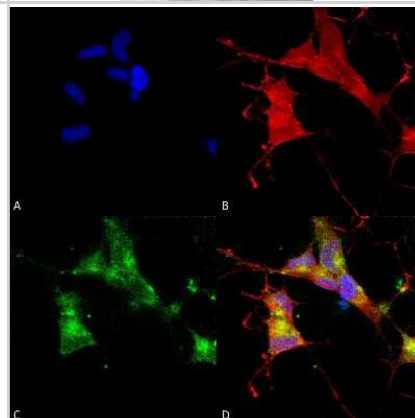


## Images

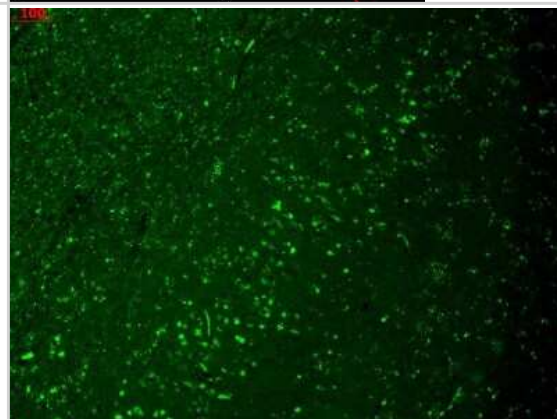
**Western Blot: HCN4 Antibody (S114/10) [NBP2-12910]** - Western Blot analysis of Human T-HEK cell lysate showing detection of HCN4 protein using Mouse Anti-HCN4 Monoclonal Antibody, Clone N114/10 (NBP2-12910). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (NBP2-12910) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



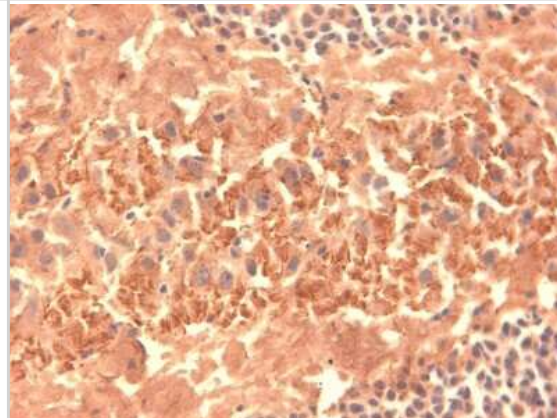
**Immunocytochemistry/Immunofluorescence: HCN4 Antibody (S114/10) [NBP2-12910]** - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone N114/10 (NBP2-12910). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (NBP2-12910) at 1:100 for overnight at 4C 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: HCN4 Antibody (S114/10) [NBP2-12910]** - Immunohistochemistry analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone N114/10 (NBP2-12910). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (NBP2-12910) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



**Immunohistochemistry-Frozen: HCN4 Antibody (S114/10) [NBP2-12910]** - Tissue: frozen brain section. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody 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 uL for 5 minutes at RT.



## Publications

S Marchiano, K Nakamura, H Reinecke, L Neidig, M Lai, S Kadota, F Perbellini, X Yang, JM Klaiman, LP Blakely, E Karbassi, PA Fields, AM Fenix, KM Beussman, A Jayabalu, FA Kalucki, A Futakuchi-, GJ Weber, S Dupras, H Tsuchida, L Pabon, L Wang, BC Knollmann, S Kattman, RS Thies, N Sniadecki, WR MacLellan, A Bertero, CE Murry Gene editing to prevent ventricular arrhythmias associated with cardiomyocyte cell therapy Cell Stem Cell, 2023-04-06;30(4):396-414.e9. 2023-04-06 [PMID: 37028405]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-12910**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-12910UV	HCN4 Antibody (S114/10) [DyLight 350]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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