



HCN4 Monoclonal Antibody (SHG 1E5)

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse, Rat	
Published Species	Rat	
Host/Isotype	Rat / IgG1	
Class	Monoclonal	
Туре	Antibody	
Clone	SHG 1E5	
Conjugate	Unconjugated	
Immunogen	Synthetic peptide sequence corresponding to residues SHGSLLLPPASSPPPPQVPQRRGTPPLTPGRLTQDLKL of HCN4.	
Form	Liquid	
Concentration	Conc. Not Determined	
Storage buffer	ascites	
Contains	0.05% sodium azide	
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles	
RRID	AB_2120037	

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunohistochemistry (Frozen) (IHC (F))	1:1,000	-
Flow Cytometry (Flow)	1/50	-

Product Specific Information

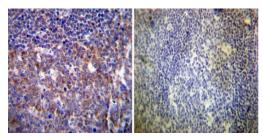
MA3-903 detects HCN4 from human, mouse, and rat samples.

MA3-903 has been successfully used in Western blotting and immunohistochemistry procedures. By Western blot MA3-903 detects a ~132 KDa band representing HCN4.

The MA3-903 immunogen is a synthetic peptide sequence corresponding to residues S H G S L L L P P A S S P P P P Q V P Q R R G T P P L T P G R L T Q D L K L of HCN4.

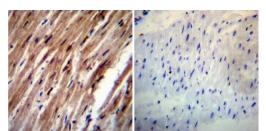
MA3-903 clone SHG 1E5 is a rat monoclonal hybridoma. This antibody was produced by immunizing a rat, isolating the spleen cells, creating the hybridoma and successively injecting these cells into a mouse to produce ascites.

Product Images For HCN4 Monoclonal Antibody (SHG 1E5)



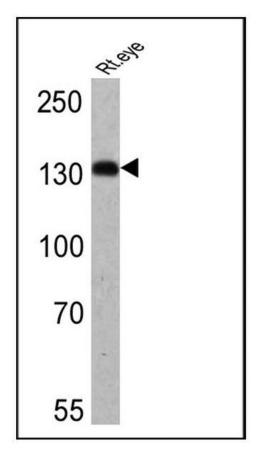
HCN4 Antibody (MA3-903) in IHC (P)

Immunohistochemistry was performed on normal deparaffinized Human tonsil tissue tissues. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a rat monoclonal antibody recognizing HCN4 (Product # MA3-903) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



HCN4 Antibody (MA3-903) in IHC (P)

Immunohistochemistry was performed on normal deparaffinized Human heart tissue tissues. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a rat monoclonal antibody recognizing HCN4 (Product # MA3-903) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



HCN4 Antibody (MA3-903) in WB

Western blot analysis of HCN4 was performed by loading 25 μ g of rat eye lysate onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a HCN4 monoclonal antibody (Product # MA3-903) at a dilution of 1:200 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~132 kDa.

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□ 1 Reference

Western Blot (1)

Pflugers Archiv: European journal of physiology

Thalamocortical neurons display suppressed burst-firing due to an enhanced Ih current in a genetic model of absence epilepsy.

"MA3-903 was used in western blot to study burst-firing in TR neurons and spike-and-wave discharges in the Genetic Absence Epilepsy Rats from Strasbourg model"

Authors: Cain SM, Tyson JR, Jones KL, Snutch TP

Year 2015

Species Rat

Dilution 1:2000

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