Synaptic Systems

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HCN 1

Cat.No. 338 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: not tested yet **ICC**: 1 : 500 up to 1 : 1000 **IHC**: 1 : 200 up to 1 : 500 **IHC-P/FFPE**: not tested yet
Immunogen	Recombinant protein corresponding to AA 849 to 910 from rat HCN1 (UniProt Id: Q9JKB0)
Reactivity	Reacts with: rat (Q9JKB0), mouse (O88704). Other species not tested yet.
Specificity	Specific for HCN 1.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Hyperpolarization-activated, **c**yclic **n**ucleotide-gated channels (**HCN**s) are a distinct class of ion channels that are widely distributed across the mammalian brain.
HCN channels are either homomeric or heteromeric compositions of the 4 subunits HCN **1**-4.

Selected General References

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HCN1 channels in cerebellar Purkinje cells promote late stages of learning and constrain synaptic inhibition.
Rinaldi A, Defterali C, Mialot A, Garden DL, Beraneck M, Nolan MF
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Preferential localization of the hyperpolarization-activated cyclic nucleotide-gated cation channel subunit HCN1 in basket cell terminals of the rat cerebellum.
Luján R, Albasanz JL, Shigemoto R, Juiz JM
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Polarized and compartment-dependent distribution of HCN1 in pyramidal cell dendrites.
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