

Anti-HCN4 Cyclic Nucleotide-Gated Channel Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11509 (clone S114-10)
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Ion channels are integral membrane proteins that help establish and control the small voltage gradient across the plasma membrane of living cells by allowing the flow of ions down their electrochemical gradient. Hyperpolarization-activated cation channels of the HCN gene family, such as HCN4, play a crucial role in the regulation of cell excitability. They contribute to spontaneous rhythmic activity in the heart and brain.

SPECIFICATION SUMMARY

Antigen: Fusion protein aa 1019-1108 (cytoplasmic C-terminus) of rat HCN4 (accession number Q9JKA7).
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse, and rat HCN4. It does not cross-react with other HCNs.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~130kDa is detected.

Immunohistochemistry and

Immunocytochemistry: use at 0.1-1ug/ml

Immunofluorescence: use at 1-10ug/ml.

These are recommended concentrations.

User should determine optimal

concentrations for their application.

Positive control: COS cell lysate transiently transfected with HCN4.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20 C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.