Data Sheet (Cat.No.TMAB-00837)

Anti-HCN4 Polyclonal Antibody

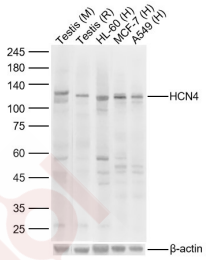
Product Details

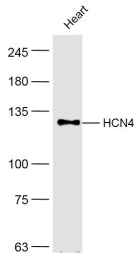
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 129 kDa. Actual: 129 kDa.
Purification:	Protein A purified

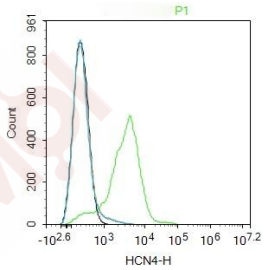
Applications

Verified Activity:

1. Sample:
Lane 1: Mouse Testis Lysates
Lane 2: Rat Testis Lysates
Lane 3: Human HL-60 cell Lysates
Lane 4: Human MCF-7 cell Lysates
Lane 5: Human A549 cell Lysates
Primary: Anti-HCN4 (TMAB-00837) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 129 kDa
Observed band size: 129 kDa
2. Sample:
Heart (Mouse) Lysate at 40 µg
Primary: Anti-HCN4 (TMAB-00837) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 129 kDa
Observed band size: 129 kDa
3. Blank control: MCF-7. Primary Antibody (green line): Rabbit Anti-HCN4 antibody (TMAB-00837)
Dilution: 1 µg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 µg/Test.
Isotype control (orange line): Normal Rabbit IgG
Protocol
The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.







Application: FCM,IF,IHC-Fr,WB

Recommended: WB: 1:500-2000; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human HCN4

Antigen Species: Human

Gene ID: 10021

Uniprot ID: Q9Y3Q4

Synonyms: Hyperpolarization activated cyclic nucleotide gated potassium channel 4;Potassium/sodium hyperpolarization activated cyclic nucleotide gated channel 4;HCN 4;Hyperpolarization activated Cyclic Nucleotide-gated channel 4

Biology Area: Cardiac arrhythmias,More Channels,More Ion Channels,Taste system

Research Background

HCN4 is a member of the family of hyperpolarization activated and cyclic nucleotide gated (HCN) channels. HCN currents have been linked to pacemaker activity in the heart and brain, resting potential control, as well as neuronal plasticity. It has been shown that HCN4 channels function as receptors for sour taste, and are associated with pacemaker potential generation in the sinoatrial node.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481