



Rabbit Anti-HCN3 antibody

SL9856R

Product Name:	HCN3
Chinese Name:	钾/钠超极化激活环核苷酸门控Channel protein3抗体
Alias:	Hcn3; HCN3_HUMAN; hyperpolarization activated cyclic nucleotide-gated potassium channel 3; KIAA1535; potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	86kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HCN3:51-150/774
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Hyperpolarization-activated, cyclic nucleotide-binding channels (HCN) are voltage-gated cation channels that are activated by direct binding of intracellular cyclic nucleotides. The HCN family consists of four members (HCN1-4), each with a core transmembrane segment domain and a C-terminal 120 amino-acid cyclic nucleotide-binding domain motif. HCN channels are expressed in the brain, heart, thalamus and

testis. The pacemaker properties of HCN channels contribute to spontaneous rhythmic activity in the brain and heart. HCN3 contains a segment characterized by a series of positively charged amino acids at every third position. This region designated S4 is likely to be the voltage sensor of the protein. In the brain, HCN3 and HCN4 exhibit subcortical distribution mainly concentrated in the hypothalamus and thalamus, respectively.

Function:

Putative hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions (By similarity).

Subunit:

The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits.

Subcellular Location:

Membrane; Multi-pass membrane protein.

Similarity:

Belongs to the potassium channel HCN family.
Contains 1 cyclic nucleotide-binding domain.

SWISS:

Q9P1Z3

Gene ID:

57657

Database links:

[Entrez Gene: 57657](#)Human

[Entrez Gene: 15168](#)Mouse

[Entrez Gene: 114245](#)Rat

[Oimim: 609973](#)Human

[SwissProt: Q9P1Z3](#)Human

[SwissProt: O88705](#)Mouse

[SwissProt: Q9JKA8](#)Rat

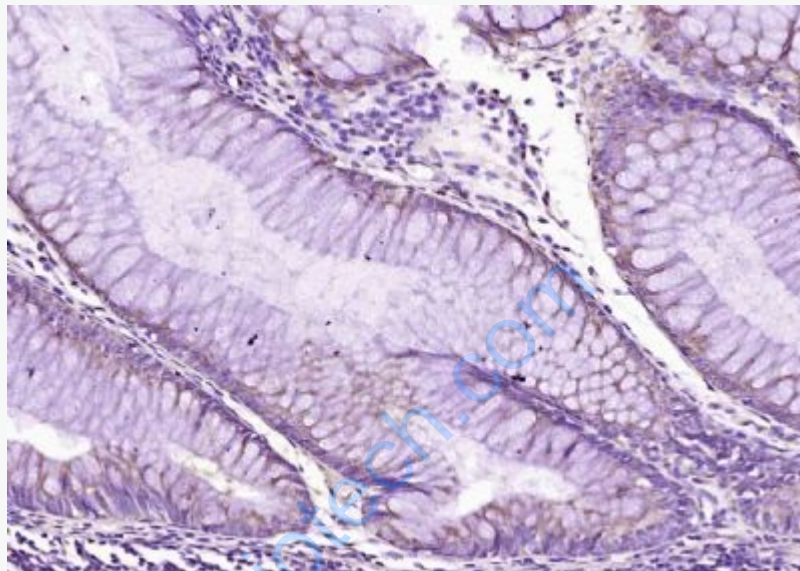
[Unigene: 706960](#)Human

[Unigene: 389461](#)Mouse

[Unigene: 48801](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (APR3) Polyclonal Antibody, Unconjugated (SL9856R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.