### bs-9856R

### [ Primary Antibody ]

# Bioss ANTIBODIES

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## – DATASHEET -

**Host:** Rabbit **Isotype:** IgG

Clonality: Polyclonal

**HCN3 Rabbit pAb** 

**GenelD:** 57657 **SWISS:** Q9P1Z3

Target: HCN3

**Immunogen:** KLH conjugated synthetic peptide derived from human HCN3:

51-150/774.

**Purification:** affinity purified by Protein A

Concentration: 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

**Background:** 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.

**Applications: IHC-P** (1:100-500)

**IHC-F** (1:100-500) **IF** (1:100-500)

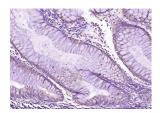
Reactivity: Human (predicted: Mouse,

Rat, Rabbit, Cow, Horse)

Predicted MANA . 86 kDa

Subcellular Location: Cell membrane

#### VALIDATION IMAGES



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 (bs-9856R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.