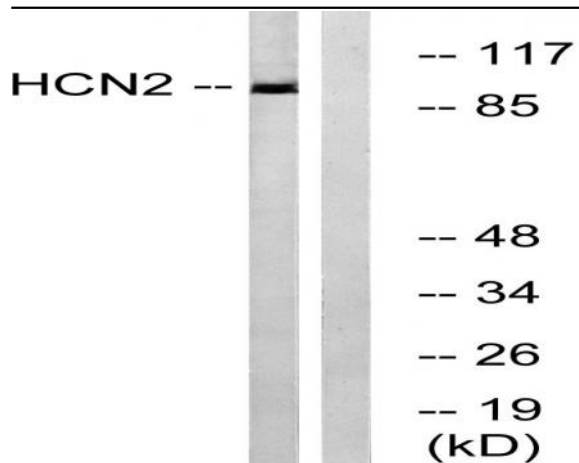


## HCN2 Polyclonal Antibody

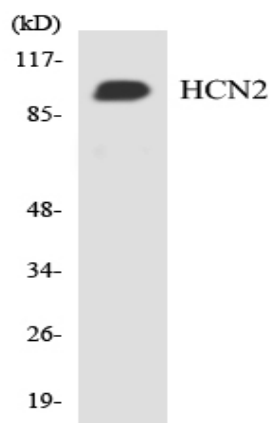
<b>Catalog No :</b>	YT2111
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	HCN2
<b>Fields :</b>	>>cAMP signaling pathway;>>GnRH secretion
<b>Gene Name :</b>	HCN2
<b>Protein Name :</b>	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2
<b>Human Gene Id :</b>	610
<b>Human Swiss Prot No :</b>	Q9UL51
<b>Mouse Gene Id :</b>	15166
<b>Mouse Swiss Prot No :</b>	O88703
<b>Rat Gene Id :</b>	114244
<b>Rat Swiss Prot No :</b>	Q9JKA9
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human HCN2. AA range:491-540
<b>Specificity :</b>	HCN2 Polyclonal Antibody detects endogenous levels of HCN2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	100kD
<b>Background :</b>	Hyperpolarization-activated cation channels of the HCN gene family, such as HCN2, contribute to spontaneous rhythmic activity in both heart and brain.[supplied by OMIM, Jul 2010],
<b>Function :</b>	domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.,function:Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Produces a large instantaneous current. Activated by cAMP. Modulated by intracellular chloride ions and pH; acidic pH shifts the activation to more negative voltages.,miscellaneous:Inhibited by extracellular cesium ions.,similarity:Belongs to the potassium channel HCN family.,similarity:Contains 1 cyclic nucleotide-binding domain.,subunit:The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits. Heteromultimer with HCN1. Interacts with KCNE2.,tissue specificity:Highly expressed throughout the brain. Detected at
<b>Subcellular Location :</b>	Cell membrane ; Multi-pass membrane protein .
<b>Expression :</b>	Highly expressed throughout the brain. Detected at low levels in heart.
<b>Sort :</b>	7273
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

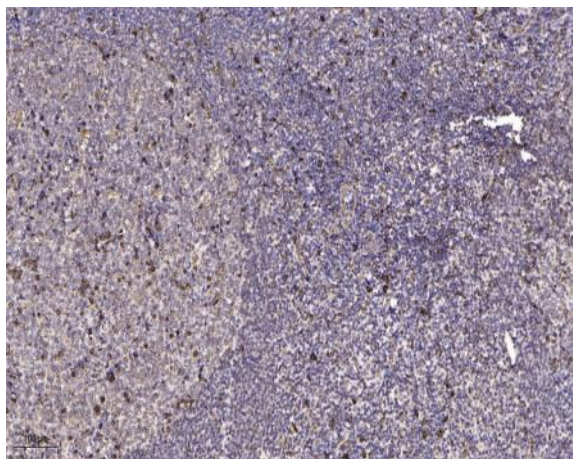
## Products Images



Western blot analysis of lysates from Jurkat cells, using HCN2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using HCN2 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).