

## Cav3.3 Polyclonal Antibody

<b>Catalog No :</b>	YN5639
<b>Reactivity :</b>	Human;Rat
<b>Applications :</b>	IHC;IF
<b>Target :</b>	Cav3.3
<b>Fields :</b>	>>MAPK signaling pathway;>>Calcium signaling pathway;>>Circadian entrainment;>>Aldosterone synthesis and secretion;>>Cortisol synthesis and secretion;>>GnRH secretion;>>Cushing syndrome
<b>Gene Name :</b>	CACNA1I
<b>Protein Name :</b>	Voltage-dependent T-type calcium channel subunit alpha-1I (Voltage-gated calcium channel subunit alpha Cav3.3) (Ca(v)3.3)
<b>Human Gene Id :</b>	8911
<b>Human Swiss Prot No :</b>	Q9P0X4
<b>Rat Swiss Prot No :</b>	Q9Z0Y8
<b>Immunogen :</b>	Synthetic Peptide of Cav3.3 AA range: 210-290
<b>Specificity :</b>	Cav3.3 protein(A209) detects endogenous levels of Cav3.3
<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>	IHC 1:100-200. 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

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 240kD

**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;Calcium;

**Background :** calcium voltage-gated channel subunit alpha1 I(CACNA1I) Homo sapiens This gene encodes the pore-forming alpha subunit of a voltage gated calcium channel. The encoded protein is a member of a subfamily of calcium channels referred to as is a low voltage-activated, T-type, calcium channel. The channel encoded by this protein is characterized by a slower activation and inactivation compared to other T-type calcium channels. This protein may be involved in calcium signaling in neurons. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011],

**Function :** domain:Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.,function:Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. Isoform alpha-1I gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group and are strongly blocked by nickel and mibefradil. A particularity of this type of channels is an opening at quite negative potentials, and a voltage-dependent

**Subcellular Location :** Membrane; Multi-pass membrane protein.

**Expression :** Brain specific.

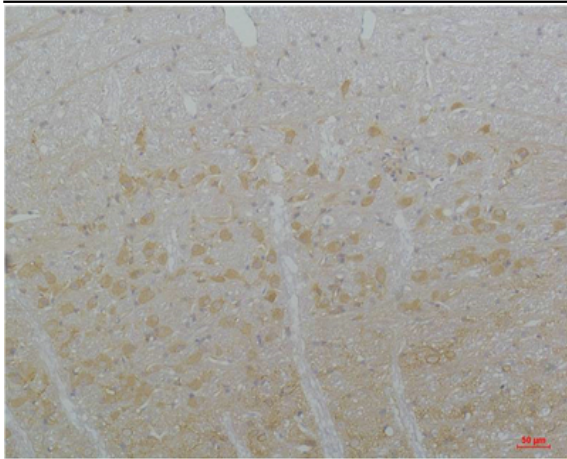
**Sort :** 3245

**No4 :** 1

**Host :** Rabbit

**Modifications :** Unmodified

## Products Images



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using Cav3.3Rabbit pAb diluted at 1:200.