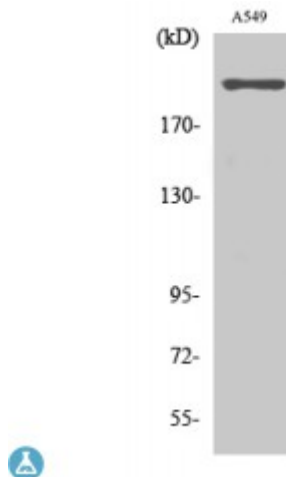


## Anti-T-type Ca<sup>++</sup> CP alpha 1H antibody



<b>Description</b>	Rabbit polyclonal to T-type Ca <sup>++</sup> CP alpha 1H.
<b>Model</b>	STJ96138
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, WB
<b>Immunogen</b>	Synthesized peptide derived from human T-type Ca <sup>++</sup> CP alpha 1H
<b>Immunogen Region</b>	440-520 aa, Internal
<b>Gene ID</b>	<a href="#">8912</a>
<b>Gene Symbol</b>	<a href="#">CACNA1H</a>
<b>Dilution range</b>	WB 1:500-1:2000ELISA 1:10000
<b>Specificity</b>	T-type Ca <sup>++</sup> CP alpha 1H Polyclonal Antibody detects endogenous levels of T-type Ca <sup>++</sup> CP alpha 1H protein.
<b>Tissue Specificity</b>	In nonneuronal tissues, the highest expression levels are found in the kidney, liver, and heart. In the brain, most abundant in the amygdala, caudate nucleus, and putamen . In the heart, expressed in blood vessels. Isoform 1 and isoform 2 are expressed in testis, primarily in the germ cells, but not in other portions of the reproductive tract, such as ductus deferens. Isoform 2 is not detected in brain . Expressed in the adrenal glomerulosa (at protein level) .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).

<b>Protein Name</b>	Voltage-dependent T-type calcium channel subunit alpha-1H Low-voltage-activated calcium channel alpha1 3.2 subunit Voltage-gated calcium channel subunit alpha Cav3.2
<b>Molecular Weight</b>	259 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/RefSeq/record/NC_000001.11:hgnc:13950">HGNC:13950</a> <a href="https://www.ncbi.nlm.nih.gov/RefSeq/record/NC_000001.11:hgnc:13950">MIM:607904</a>
<b>Alternative Names</b>	Voltage-dependent T-type calcium channel subunit alpha-1H Low-voltage-activated calcium channel alpha1 3.2 subunit Voltage-gated calcium channel subunit alpha Cav3.2
<b>Function</b>	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. The isoform alpha-1H 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 inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes. In the adrenal zona glomerulosa, participates in the signaling pathway leading to aldosterone production in response to either AGT/angiotensin II, or hyperkalemia .
<b>Sequence and Domain Family</b>	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.
<b>Cellular Localization</b>	Membrane. Multi-pass membrane protein.
<b>Post-translational Modifications</b>	In response to raising of intracellular calcium, the T-type channels are activated by CaM-kinase II.