Best Tools for immunology Research

CAC1S Polyclonal Antibody

Catalog No :	YN1526
Reactivity :	Human;Rat;Mouse
Applications :	WB;ELISA
Target :	CAC1S
Fields :	>>MAPK signaling pathway;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Retrograde endocannabinoid signaling;>>Cholinergic synapse;>>Serotonergic synapse;>>GABAergic synapse;>>Insulin secretion;>>GnRH signaling pathway;>>Oxytocin signaling pathway;>>Renin secretion;>>Aldosterone synthesis and secretion;>>Cortisol synthesis and secretion;>>GnRH secretion;>>Cushing syndrome;>>Growth hormone synthesis, secretion and action;>>Alzheimer disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - receptor activation;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy
Gene Name :	CACNA1S CACH1 CACN1 CACNL1A3
Protein Name :	Voltage-dependent L-type calcium channel subunit alpha-1S (Calcium channel, L type, alpha-1 polypeptide, isoform 3, skeletal muscle) (Voltage-gated calcium channel subunit alpha Cav1.1)
Human Gene Id :	779
Human Swiss Prot No :	Q13698
Mouse Swiss Prot No :	Q02789
Rat Swiss Prot No :	Q02485
Immunogen :	Synthesized peptide derived from human protein . at AA range: 330-410
Specificity :	CAC1S Polyclonal Antibody detects endogenous levels of protein.

Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	206kD
Cell Pathway :	MAPK_ERK_Growth;MAPK_G_Protein;Calcium;Cardiac muscle contraction;Vascular smooth muscle contraction;GnRH;Alzheimer's disease;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiom
Background :	calcium voltage-gated channel subunit alpha1 S(CACNA1S) Homo sapiens This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in CACNA1S are a cause of periodic paralysis hypokalemic (HOKPP) [MIM:170400]; also designated HYPOPP. HOKPP is an autosomal dominant disorder manifested by episodic flaccid generalized muscle weakness associated with falls of serum potassium levels.,disease:Defects in CACNA1S are the cause of malignant hyperthermia susceptibility 5 (MHS5) [MIM:601887]; an autosomal dominant disorder that is potentially lethal in susceptible individuals on exposure to commonly used inhalational anesthetics and depolarizing muscle relaxants.,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.,domain:The loop between repeats II and III in
Subcellular Location :	Cell membrane, sarcolemma, T-tubule ; Multi-pass membrane protein .
Expression :	Skeletal muscle specific.

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