

Anti-Cacna2d1 antibody



Description	Rabbit polyclonal to Cacna2d1.
Model	STJ91956
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Cacna2d1.
Immunogen Region	N-terminal
Gene ID	781
Gene Symbol	CACNA2D1
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	Cacna2d1 Polyclonal Antibody detects endogenous levels of Cacna2d1 protein.
Tissue Specificity	Isoform 1 is expressed in skeletal muscle. Isoform 2 is expressed in the central nervous system. Isoform 2, isoform 4 and isoform 5 are expressed in neuroblastoma cells. Isoform 3, isoform 4 and isoform 5 are expressed in the aorta.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-1 Voltage-gated calcium channel subunit alpha-2/delta-1 Voltage-dependent calcium channel

	subunit alpha-2-1 Voltage-dependent calcium channel subunit delta-1
Molecular Weight	123 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1399OMIM:114204
Alternative Names	Voltage-dependent calcium channel subunit alpha-2/delta-1 Voltage-gated calcium channel subunit alpha-2/delta-1 Voltage-dependent calcium channel subunit alpha-2-1 Voltage-dependent calcium channel subunit delta-1
Function	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Plays an important role in excitation-contraction coupling .
Sequence and Domain Family	The MIDAS-like motif in the VWFA domain binds divalent metal cations and is required to promote trafficking of the alpha-1 (CACNA1) subunit to the plasma membrane by an integrin-like switch.
Cellular Localization	Membrane
Post-translational Modifications	Proteolytically processed into subunits alpha-2-1 and delta-1 that are disulfide-linked.