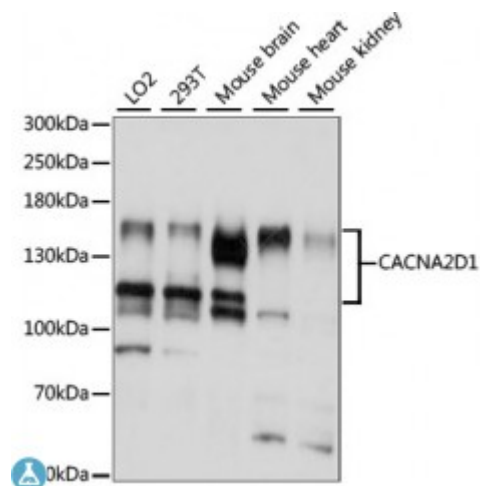


Anti-CACNA2D1 Antibody



Description

The preproprotein encoded by this gene is cleaved into multiple chains that comprise the alpha-2 and delta subunits of the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. Mutations in this gene can cause cardiac deficiencies, including Brugada syndrome and short QT syndrome. Alternate splicing results in multiple transcript variants, some of which may lack the delta subunit portion.

Model	STJ117455
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 550-800 of human CACNA2D1 (NP_000713.2).
Gene ID	781
Gene Symbol	CACNA2D1
Dilution range	WB 1:200 - 1:2000
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	Affinity purification
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
Molecular Weight	124.568 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:1399OMIM:114204Reactome:R-HSA-5576892
Alternative Names	Voltage-dependent calcium channel subunit alpha-2/delta-1 Voltage-gated calcium channel subunit alpha-2/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 ,
Cellular Localization	Membrane
Post-translational Modifications	Proteolytically processed into subunits alpha-2-1 and delta-1 that are disulfide-linked,

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