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CaVα2δ2 rabbit pAb

Cat No.:ES20792

For research use only

Overview

Product Name	CaVα2δ2 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF
Species Cross-Reactivity	Human;Rat;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	Synthetic Peptide of CaVα2δ2 AA range: 540-620
Specificity	The antibody detects endogenous CaVα2δ2 protein
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-2 (Voltage-gated calcium channel subunit alpha-2/delta-2) [Cleaved into: Voltage-dependent calcium channel subunit alpha-2-2; Voltage-dependent
Gene Name	CACNA2D2
Cellular localization	Membrane ; Single-pass type I membrane protein . Colocalizes with CACNA1A in lipid raft fractions. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	100-120kD
Human Gene ID	9254
Human Swiss-Prot Number	Q9NY47
Alternative Names	Voltage-dependent calcium channel subunit alpha-2/delta-2 (Voltage-gated calcium channel subunit alpha-2/delta-2) [Cleaved into: Voltage-dependent calcium channel subunit alpha-2-2; Voltage-dependent calcium channel

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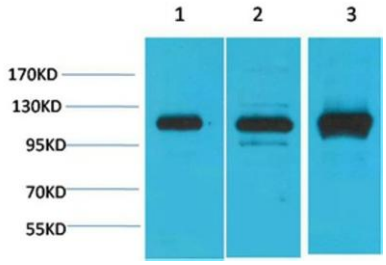
Background

subunit delta-2]
calcium voltage-gated channel auxiliary subunit alpha2delta 2(CACNA2D2) Homo sapiens
Calcium channels mediate the entry of calcium ions into the cell upon membrane polarization. This gene encodes the alpha-2/delta subunit of the voltage-dependent calcium channel complex. The complex consists of the main channel-forming subunit alpha-1, and auxiliary subunits alpha-2/delta, beta, and gamma. The auxiliary subunits function in the assembly and membrane localization of the complex, and modulate calcium currents and channel activation/inactivation kinetics. The subunit encoded by this gene undergoes post-translational cleavage to yield the extracellular alpha2 peptide and a membrane-anchored delta polypeptide. This subunit is a receptor for the antiepileptic drug, gabapentin. Mutations in this gene are associated with early infantile epileptic encephalopathy. Single nucleotide polymorphisms in this gene are correlated with increased sensitivity to



Western blot analysis of 1)293T, 2)Mouse Brain Tissue, 3) Rat Brain Tissue with CaV α2δ2 Rabbit pAb diluted at 1:2,000.

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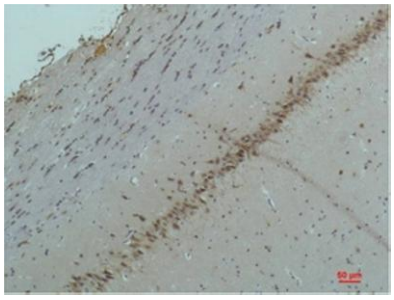

Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using CaV α2δ2 Rabbit pAb diluted at 1:200.

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