

ARG43591 anti-CACNA2D3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CACNA2D3
Tested Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CACNA2D3
Species	Rat
Immunogen	Synthetic peptide derived from rat Cacna2d3.
Conjugation	Un-conjugated
Alternate Names	HSA272268; Voltage-gated calcium channel subunit alpha-2/delta-3; Voltage-dependent calcium channel subunit alpha-2-3; Voltage-dependent calcium channel subunit delta-3

Application Instructions

Application table	Application	Dilution
	IHC-P	1:1000
	WB	1:1000
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in Tris-EDTA pH9.0 for 20 min. Incubate with antibody at RT for 30-60 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse brain	

Properties

Form	Powder
Purification	Unpurified
Buffer	Whole serum
Reconstitution	Reconstitute in 100 µl of sterile water. When reconstituting 0.1% sodium azide or 1:1 (v/v) glycerol may be added for an additional stability.
Storage instruction	Storage lyophilised/reconstituted antibody at -20°C. After reconstitution, for continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store reconstituted antibody at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CACNA2D3
Gene Full Name	calcium voltage-gated channel auxiliary subunit alpha2delta 3
Background	CACNA2D3 gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]
Function	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) but not T-type (CACNA1G) (By similarity).
Calculated Mw	122 kDa
PTM	Disulfide bond, Glycoprotein, Phosphoprotein N-glycosylated May be proteolytically processed into subunits alpha-2-3 and delta-3 that are disulfide-linked. It is however unclear whether such cleavage really takes place in vivo and has a functional role (By similarity).
Cellular Localization	Membrane

Images



ARG43591 anti-anti-CACNA2D3 antibody antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Mouse brain tissue stained with ARG43591 anti-anti-CACNA2D3 antibody antibody IHC-P image at 1:1000 dilution (RT, 30 min). Antigen retrieval: Heat the slide in Tris-EDTA, pH 9.0 buffer for 20 min.