CACNA2D3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CACNA2D3, Polyclonal Antibody
Full Product Name	CACNA2D3
Product Gene Name	anti-CACNA2D3 antibody
Product Synonym Names	HSA272268
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	123kDa
OMIM	606399
3D Structure	ModBase 3D Structure for Q8IZS8
Immunogen	Recombinant protein of human CACNA2D3
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CACNA2D3 antibody	Western Blot (WB)
Application Notes for anti-CACNA2D3 antibody	WB: 1:1000-1:2000
Related Product Information for anti-CACNA2D3 antibody	This 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.
Other Notes	Small volumes of anti-CACNA2D3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CACNA2D3 purchase	MBS8535336 is an antibody targeting CACNA2D3. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CACNA2D3. It may not necessarily be applicable to this product.

NCBI GI #	54112397
NCBI GeneID	55799

NCBI Accession #	NP_060868.2
UniProt Primary Accession #	Q8IZS8
UniProt Secondary Accession #	Q9NY16; Q9NY18; B2RPL6
UniProt Related Accession #	Q8IZS8
GenBank Nucleotide #	NM_018398.2
NCBI Official Full Name	voltage-dependent calcium channel subunit alpha-2/delta-3
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit alpha2delta 3
NCBI Official Symbol	CACNA2D3
NCBI Official Synonym Symbols	HSA272268
UniProt Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-3
UniProt Synonym Protein Names	Voltage-gated calcium channel subunit alpha-2/delta-3
Protein Family	Voltage-dependent calcium channel
UniProt Gene Name	CACNA2D3
NCBI Protein Information	voltage-dependent calcium channel subunit alpha-2/delta-3
UniProt Comments for CACNA2D3	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) ().
Research Articles on CACNA2D3	**1.** Nine of the 32 (28.1%) iCCA patients had gene mutations at chromosome 3p, totaling 11 mutations across five genes. Those included five (15.6%) BAP1 mutations, two each (6.3%) of CACNA2D3 and RASSF1 mutations, and one each (3.1%) of ATG7 and PLCD1 mutations. Six (18.8%) cases had concurrent loss of chromosome 3p and gene mutations.
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