CaValpha2delta3 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	CaValpha2delta3, Polyclonal Antibody
Full Product Name	CaValpha2delta3 Polyclonal Antibody
Product Gene Name	anti-CaValpha2delta3 antibody
Clonality	Polyclonal
Molecular Weight	59,527 Da
OMIM	606399
3D Structure	ModBase 3D Structure for Q8IZS8
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CaValpha2delta3 antibody	MBS8519719 is an antibody targeting CaValpha2delta3. Also known as CaValpha2delta3 Polyclonal Antibody.
Other Notes	Small volumes of anti-CaValpha2delta3 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CaValpha2delta3. 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
UniProt Gene Name	CACNA2D3
NCBI Protein Information	voltage-dependent calcium channel subunit alpha-2/delta-3

NCBI Summary for CaValpha2delta3	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CaValpha2delta3	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 CaValpha2delta3	**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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