Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Cacna2d4, Polyclonal Antibody
Full Product Name	Cacna2d4 Polyclonal Antibody
Product Gene Name	anti-Cacna2d4 antibody
Clonality	Polyclonal
Molecular Weight	4,955 Da
OMIM	608171
3D Structure	ModBase 3D Structure for Q7Z3S7
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-Cacna2d4 antibody	MBS8521573 is an antibody targeting Cacna2d4. Also known as Cacna2d4 Polyclonal Antibody.
Other Notes	Small volumes of anti-Cacna2d4 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 Cacna2d4. It may not necessarily be applicable to this product.

NCBI GI #	132566536
NCBI GeneID	93589
NCBI Accession #	NP_758952.4
UniProt Primary Accession #	Q7Z3S7
UniProt Secondary Accession #	Q7Z3S8; Q86XZ5; Q8IZS9
UniProt Related Accession #	Q7Z3S7
GenBank Nucleotide #	NM_172364.4
NCBI Official Full Name	voltage-dependent calcium channel subunit alpha-2/delta-4
NCBI Official Synonym Full Names	calcium voltage-gated channel auxiliary subunit alpha2delta 4
NCBI Official Symbol	CACNA2D4
NCBI Official Synonym Symbols	RCD4
UniProt Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-4
UniProt Synonym Protein Names	Voltage-gated calcium channel subunit alpha-2/delta-4
Protein Family	Voltage-dependent calcium channel
UniProt Gene Name	CACNA2D4
NCBI Protein Information	voltage-dependent calcium channel subunit alpha-2/delta-4

NCBI Summary for Cacna2d4	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 Cacna2d4	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel.
Research Articles on Cacna2d4	**1.** This report describes a distinctive ERG phenotype, predominantly involving the cone pathways, in 2 unrelated patients from different ethnic backgrounds with homozygous mutations in CACNA2D4 and normal retinal imaging
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