CNG-1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	CNG-1, Polyclonal Antibody
Full Product Name	CNG-1 Polyclonal Antibody
Product Gene Name	anti-CNG-1 antibody
Clonality	Polyclonal
Molecular Weight	86,900 Da
OMIM	123825
3D Structure	ModBase 3D Structure for P29973
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CNG-1 antibody	MBS8521976 is an antibody targeting CNG-1. Also known as CNG-1 Polyclonal Antibody.
Other Notes	Small volumes of anti-CNG-1 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 CNG-1. It may not necessarily be applicable to this product.

NCBI GI #	71143141
NCBI GeneID	1259
NCBI Accession #	NP_000078.2
UniProt Primary Accession #	P29973
UniProt Secondary Accession #	Q16279; Q16485; Q4W5E3; A8K7K6; J3KPZ2
UniProt Related Accession #	P29973
GenBank Nucleotide #	NM_000087.3
NCBI Official Full Name	cGMP-gated cation channel alpha-1 isoform 2
NCBI Official Synonym Full Names	cyclic nucleotide gated channel alpha 1
NCBI Official Symbol	CNGA1
NCBI Official Synonym Symbols	CNCG; CNG1; RP49; CNCG1; CNG-1; RCNC1; RCNCa; RCNCalpha
UniProt Protein Name	cGMP-gated cation channel alpha-1
UniProt Synonym Protein Names	Cyclic nucleotide-gated cation channel 1; Cyclic nucleotide-gated channel alpha-1; CNG channel alpha-1; CNG-1; CNG1; Cyclic nucleotide-gated channel, photoreceptor; Rod photoreceptor cGMP-gated channel subunit alpha
Protein Family	cGMP-gated cation channel
UniProt Gene Name	CNGA1
UniProt Synonym Gene Names	CNCG; CNCG1; CNG channel alpha-1; CNG-1; CNG1
NCBI Protein Information	cGMP-gated cation channel alpha-1

NCBI Summary for CNG-1	The protein encoded by this gene is involved in phototransduction. Along with another protein, the encoded protein forms a cGMP-gated cation channel in the plasma membrane, allowing depolarization of rod photoreceptors. This represents the last step in the phototransduction pathway. Defects in this gene are a cause of retinitis pigmentosa autosomal recessive (ARRP) disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
UniProt Comments for CNG-1	Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cyclic GMP which leads to an opening of the cation channel and thereby causing a depolarization of rod photoreceptors.CautionIt is uncertain whether Met-1 or Met-5 is the initiator.
Research Articles on CNG-1	**1.** Compound heterozygous mutations (NM000087, p.Y82X and p.L89fs) in exon 6 of CNGA1are pathogenic mutations in this Chinese family affected with autosomal recessive retinitis pigmentosa. Of which, p.Y82X is firstly reported in patient with autosomal recessive retinitis pigmentosa.
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