10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CNGA3 Antibody (aa1-165)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18626

Product Information

Application	WB, IHC-P
Primary Accession	Q16281
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	78838

Additional Information

Gene ID	1261
Alias Symbol	CNGA3
Other Names	CNGA3, CCNCa, CCNCalpha, CCNC1, CNG channel alpha-3, CNG3, ACHM2, Achromatopsia 2, MCNG3, CNCG3, CNG-3
Target/Specificity	Human CNGA3
Reconstitution & Storage	Affinity purified
Precautions	Anti-CNGA3 Antibody (aa1-165) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNGA3 {ECO:0000303|PubMed:37463923, ECO:0000312|HGNC:HGNC:2150}
Function	Pore-forming subunit of the cone cyclic nucleotide-gated channel. Mediates cone photoresponses at bright light converting transient changes in intracellular cGMP levels into electrical signals. In the dark, cGMP levels are high and keep the channel open enabling a steady inward current carried by Na(+) and Ca(2+) ions that leads to membrane depolarization and neurotransmitter release from synaptic terminals. Upon photon absorption cGMP levels decline leading to channel closure and membrane hyperpolarization that ultimately slows neurotransmitter release and signals the presence of light, the end point of the phototransduction cascade (PubMed:10888875, PubMed:12815043, PubMed:34969976, PubMed:37463923). Pore-forming subunit of the gustatory cyclic nucleotide-gated channel. In the taste buds, may sense oral extracellular pH and conduct ion currents that modulate the excitability of taste cells (By similarity). Conducts cGMP- and cAMP-gated ion currents, with permeability

	for monovalent and divalent cations (By similarity) (PubMed:12815043).
Cellular Location	Photoreceptor outer segment membrane {ECO:0000250|UniProtKB:Q9JJZ8}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localized in cone outer segment membranes {ECO:0000250|UniProtKB:Q9JJZ8}
Tissue Location	Prominently expressed in retina.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.