CNGA4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CNGA4, Polyclonal Antibody
Full Product Name	CNGA4, NT (CNGA4, Cyclic nucleotide-gated cation channel alpha-4, Cyclic nucleotide-gated channel alpha-4) (MaxLight 405)
Product Gene Name	anti-CNGA4 antibody
Product Synonym Names	CNGA4; Cyclic nucleotide-gated cation channel alpha-4; Cyclic nucleotide-gated channel alpha-4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	47,743 Da
OMIM	609472
3D Structure	ModBase 3D Structure for Q8IV77
Immunogen	CNGA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-168 amino acids from the N-terminal region of human CNGA4.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CNGA4 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-CNGA4 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CNGA4 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CNGA4 antibody	CNGA4 is a modulatory subunit of vertebrate cyclic nucleotide-gated membrane channels that transduce odorant signals (Munger et al., 2001 [PubMed 11739959]).
Product References and Citations for anti-CNGA4 antibody	Hofmann, F., et al. Pharmacol. Rev. 57(4):455-462(2005). Kelliher, K.R., et al. Proc. Natl. Acad. Sci. U.S.A. 100(7):4299-4304(2003). Bradley, J., et al. Science 294(5549):2095-2096(2001). Munger, S.D., et al. Science 294(5549):2172-2175(2001).
Other Notes	Small volumes of anti-CNGA4 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 CNGA4 purchase	MBS6287157 is an antibody targeting CNGA4. Also known as CNGA4, NT (CNGA4, Cyclic nucleotide-gated cation channel alpha-4, Cyclic nucleotide-gated channel alpha-4) (MaxLight 405). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNGA4. It may not necessarily be applicable to this product.

NCBI GI #	82617546
NCBI GeneID	1262
NCBI Accession #	NP_001032406.1
UniProt Primary Accession #	Q8IV77
UniProt Related Accession #	Q8IV77
GenBank Nucleotide #	NM_001037329.3
NCBI Official Full Name	cyclic nucleotide-gated cation channel alpha-4
NCBI Official Synonym Full Names	cyclic nucleotide gated channel alpha 4
NCBI Official Symbol	CNGA4
NCBI Official Synonym Symbols	CNG4; CNG5; CNCA2; CNG-4; CNGB2; OCNC2; OCNCb; OCNCBETA
UniProt Protein Name	Cyclic nucleotide-gated cation channel alpha-4
UniProt Synonym Protein Names	Cyclic nucleotide-gated channel alpha-4; CNG channel alpha-4; CNG-4; CNG4
Protein Family	Cyclic nucleotide-gated cation channel
UniProt Gene Name	CNGA4
UniProt Synonym Gene Names	CNG channel alpha-4; CNG-4; CNG4
UniProt Entry Name	CNGA4_HUMAN
NCBI Protein Information	cyclic nucleotide-gated cation channel alpha-4
UniProt Comments for CNGA4	CNGA4: Second messenger, cAMP, causes the opening of cation- selective cyclic nucleotide-gated (CNG) channels and depolarization of the neuron (olfactory sensory neurons, OSNs). CNGA4 is the modulatory subunit of this channel which is known to play a central role in the transduction of odorant signals and subsequent adaptation. By accelerating the calcium-mediated negative feedback in olfactory signaling it allows rapid adaptation to odor stimulation and extends its range of odor detection. Belongs to the cyclic nucleotide-gated cation channel (TC 1.A.1.5) family. CNGA4 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11p15.4 Cellular Component: Golgi membrane; integral to plasma membrane Molecular Function: voltage-gated potassium channel activity; intracellular cAMP activated cation channel activity; intracellular cGMP activated cation channel activity; cGMP binding; cAMP binding Biological Process: phototransduction, visible light; regulation of membrane potential; organelle organization and biogenesis; sensory perception of smell
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