# CNGA4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CNGA4, Polyclonal Antibody |
| **Full Product Name** | CNGA4 Polyclonal Antibody |
| **Product Gene Name** | anti-CNGA4 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 47kDa; 65kDa |
| **OMIM** | 609472 |
| **3D Structure** | ModBase 3D Structure for Q8IV77 |
| **Immunogen** | Recombinant protein of human CNGA4 (NP_001032406.1). |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CNGA4 antibody** | Western Blot (WB) |
| **Application Notes for anti-CNGA4 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-CNGA4 antibody** | MBS8569407 is an antibody targeting CNGA4. Also known as CNGA4 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit. |
| **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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 82617546 |
| **NCBI GeneID** | 1262 |
| **NCBI Accession #** | NP_001032406.1 |
| **UniProt Primary Accession #** | Q8IV77 |
| **UniProt Related Accession #** | Q8IV77 |
| **GenBank Nucleotide #** | NP_001032406.1 |
| **NCBI Official Full Name** | cyclic nucleotide-gated cation channel alpha-4 |

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| **NCBI Official Synonym Full Names** | cyclic nucleotide gated channel subunit 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 |
| **NCBI Summary for CNGA4** | CNGA4 is a modulatory subunit of vertebrate cyclic nucleotide-gated membrane channels that transduce odorant signals (Munger et al., 2001 [PubMed 11739959]).[supplied by OMIM, Mar 2008] |
| **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.<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass<br><br>Chromosomal Location of Human Ortholog: 11p15.4<br><br>Cellular Component: Golgi membrane; integral to plasma membrane<br><br>Molecular Function: voltage-gated potassium channel activity; intracellular cAMP activated cation channel activity; intracellular cGMP activated cation channel activity; cGMP binding; cAMP binding<br><br>Biological Process: phototransduction, visible light; regulation of membrane potential; organelle organization and biogenesis; sensory perception of smell |
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