

CNGA2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14486a**Specification**

CNGA2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q16280](#)**CNGA2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1260**Other Names**

Cyclic nucleotide-gated olfactory channel, Cyclic nucleotide-gated cation channel 2, Cyclic nucleotide-gated channel alpha-2, CNG channel alpha-2, CNG-2, CNG2, CNGA2, CNCA, CNCA1, CNCG2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CNGA2 Antibody (N-term) Blocking Peptide - Protein Information**Name** CNGA2 {ECO:0000303|PubMed:11764791, ECO:0000312|HGNC:HGNC:2149}**Function**

Pore-forming subunit of the olfactory cyclic nucleotide-gated channel. Operates in the cilia of olfactory sensory neurons where chemical stimulation of the odorant is converted to an electrical signal. Mediates odorant-induced cAMP-dependent Ca(2+) influx triggering neuron depolarization. The rise of intracellular Ca(2+) levels potentiates the olfactory response by activating Ca(2+)-dependent Cl(-) channels, but it also serves as a negative feedback signal to desensitize the channel for rapid adaptation to odorants. Conducts cAMP- and cGMP-gated ion currents, with permeability for monovalent and divalent cations.

Cellular Location

Cell projection, cilium membrane {ECO:0000250|UniProtKB:Q00195}; Multi-pass membrane protein

CNGA2 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CNGA2 Antibody (N-term) Blocking Peptide - Images

CNGA2 Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene represents the alphasubunit of a cyclic nucleotide-gated olfactory channel. The encoded protein contains a carboxy-terminal leucine zipper that mediates channel formation.

CNGA2 Antibody (N-term) Blocking Peptide - References

Qu, W., et al. J. Gen. Physiol. 127(4):375-389(2006) Hofmann, F., et al. Pharmacol. Rev. 57(4):455-462(2005) Yoo, D., et al. J. Biol. Chem. 279(8):6863-6873(2004) Cheng, K.T., et al. Histochem. Cell Biol. 120(6):475-481(2003) Trudeau, M.C., et al. J. Biol. Chem. 278(21):18705-18708(2003)