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CNGA2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14486a

Specification

CNGA2 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q16280
Other Accession	Q03041, NP_005131.1
Reactivity	**Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**190-218**

CNGA2 Antibody (N-term) - 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

Target/Specificity
This CNGA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 190-218 amino acids from the N-terminal region of human CNGA2.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CNGA2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CNGA2 Antibody (N-term) - 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.

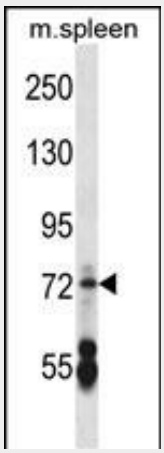
Cellular Location
Cell projection, cilium membrane {ECO:0000250|UniProtKB:Q00195}; Multi-pass membrane protein

CNGA2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CNGA2 Antibody (N-term) - Images



CNGA2 Antibody (N-term) (Cat. #AP14486a) western blot analysis in mouse spleen tissue lysates (35ug/lane).This demonstrates the CNGA2 antibody detected the CNGA2 protein (arrow).

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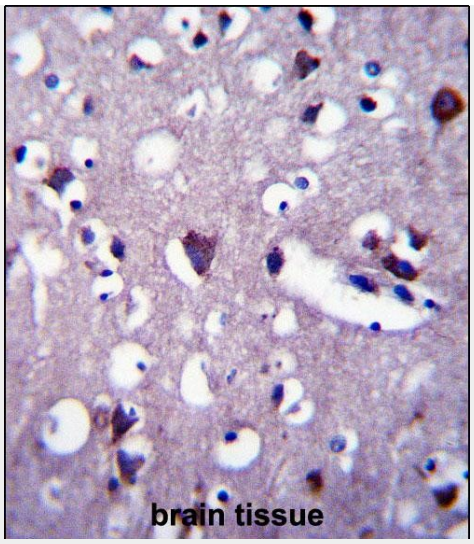

CNGA2 Antibody (N-term) (Cat. #AP14486a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CNGA2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CNGA2 Antibody (N-term) - Background

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

CNGA2 Antibody (N-term) - 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)

CNGA2 Antibody (N-term) - Citations

- Genetic dissection of pheromone processing reveals main olfactory system-mediated social behaviors in mice.