

CNGA4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP11811a

Specification

CNGA4 Antibody (N-term) - Product Information

Application WB, IHC-P,E
Primary Accession Q8IV77

Other Accession NP 001032406.1

Reactivity
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region

Mouse
Rabbit
Polyclonal
Rabbit IgG
65999
131-160

CNGA4 Antibody (N-term) - Additional Information

Gene ID 1262

Other Names

Cyclic nucleotide-gated cation channel alpha-4, Cyclic nucleotide-gated channel alpha-4, CNG channel alpha-4, CNG-4, CNG-4, CNG-4, CNG-4

Target/Specificity

This CNGA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-160 amino acids from the N-terminal region of human CNGA4.

Dilution

WB~~1:1000 IHC-P~~1:10~50

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

CNGA4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CNGA4 Antibody (N-term) - Protein Information

Name CNGA4





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Function 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 (By similarity).

Cellular Location

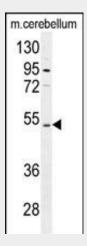
Membrane; Multi-pass membrane protein

CNGA4 Antibody (N-term) - Protocols

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

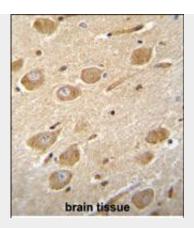
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CNGA4 Antibody (N-term) - Images



CNGA4 Antibody (N-term) (Cat. #AP11811a) western blot analysis in mouse cerebellum tissue lysates (35ug/lane). This demonstrates the CNGA4 antibody detected the CNGA4 protein (arrow).





CNGA4 Antibody (N-term) (Cat. #AP11811a)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 CNGA4 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CNGA4 Antibody (N-term) - Background

CNGA4 is a modulatory subunit of vertebrate cyclic nucleotide-gated membrane channels that transduce odorant signals (Munger et al., 2001 [PubMed 11739959]).

CNGA4 Antibody (N-term) - References

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)