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CNGA4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11811a

Specification

CNGA4 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q8IV77
Other Accession	NP_001032406.1
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**65999**
Antigen Region	**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, CNG4, CNGA4

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
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
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 {ECO:0000303|PubMed:11764791, ECO:0000312|HGNC:HGNC:2152}

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.

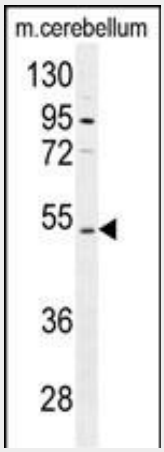
Cellular Location
Cell projection, cilium membrane {ECO:0000250|UniProtKB:Q64359}; Multi-pass membrane protein

CNGA4 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- 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).

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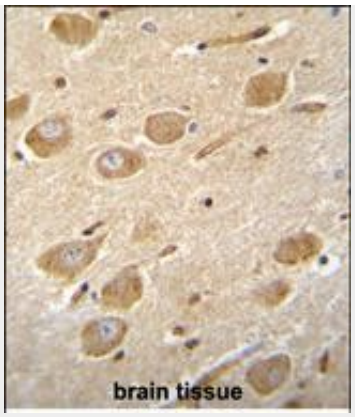

CNGA4 Antibody (N-term) (Cat. #AP11811a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CNGA4 Antibody (N-term) for immunohistochemistry. Clinical relevance 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)