

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	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

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

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

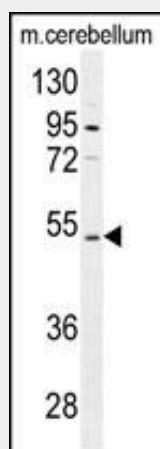
Membrane; Multi-pass membrane protein

CNGA4 Antibody (N-term) - Protocols

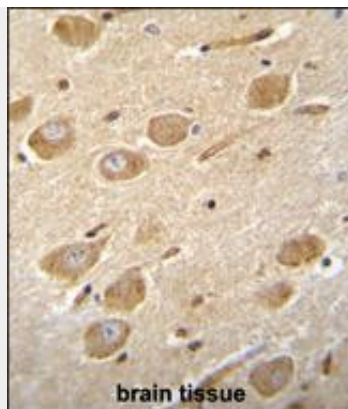
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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)