

CNGA4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11811a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8IV77
Other Accession	NP_001032406.1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29600
Calculated MW	65999
Antigen Region	131-160

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~~1:100~500 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.

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

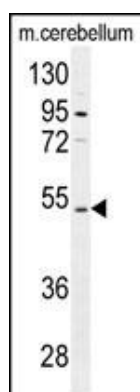
Background

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

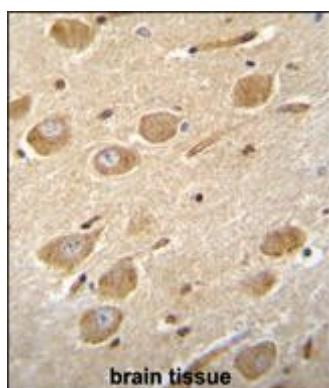
References

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)

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.