10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CNGA2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51097

Specification

CNGA2 Antibody - Product Information

Application	**WB**
Primary Accession	Q16280
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**83 KDa**
Antigen Region	**381 - 440**

CNGA2 Antibody - 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
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CNGA2. The exact sequence is proprietary.

Dilution
WB~~ 1:1000

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

CNGA2 Antibody - 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.

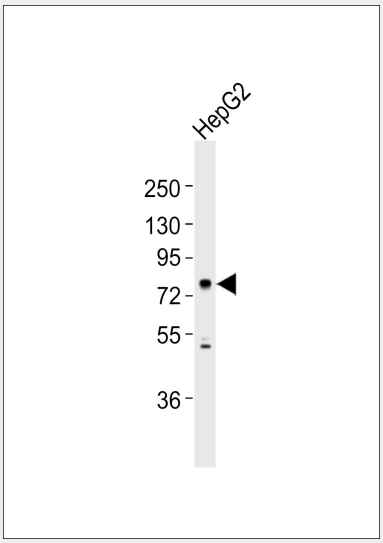
Cellular Location
Cell projection, cilium membrane {ECO:0000250|UniProtKB:Q00195}; Multi-pass membrane protein

CNGA2 Antibody - 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 - Images



Anti-CNGA2 Antibodyat 1:1000 dilution + HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 76 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

CNGA2 Antibody - Background

Odorant signal transduction is probably mediated by a G- protein coupled cascade using cAMP as second messenger. The olfactory channel can be shown to be activated by cyclic nucleotides which leads to a depolarization of olfactory sensory neurons.

CNGA2 Antibody - References

Distler M.,et al.Neuropharmacology 33:1275-1282(1994).
Sjoeblom T.,et al.Science 314:268-274(2006).