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CNGB3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12708a

Specification

CNGB3 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9NQW8
Other Accession	NP_061971.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**26-55**

CNGB3 Antibody (N-term) - Additional Information

Gene ID 54714

Other Names
Cyclic nucleotide-gated cation channel beta-3, Cone photoreceptor cGMP-gated channel subunit beta, Cyclic nucleotide-gated cation channel modulatory subunit, Cyclic nucleotide-gated channel beta-3, CNG channel beta-3, CNGB3

Target/Specificity
This CNGB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-55 amino acids from the N-terminal region of human CNGB3.

Dilution
WB~~1:1000

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
CNGB3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CNGB3 Antibody (N-term) - Protein Information

Name CNGB3

Function Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as

second messenger. This protein can be activated by cGMP which leads to an opening of the cation channel and thereby causing a depolarization of rod photoreceptors. Induced a flickering channel gating, weakened the outward rectification in the presence of extracellular calcium, increased sensitivity for L-cis diltiazem and enhanced the cAMP efficiency of the channel when coexpressed with CNGA3 (By similarity). Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones.

Cellular Location
Membrane; Multi-pass membrane protein.

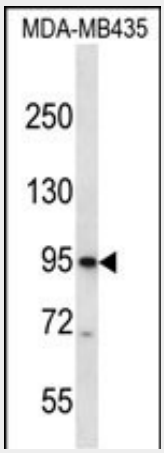
Tissue Location
Expressed specifically in the retina.

CNGB3 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

CNGB3 Antibody (N-term) - Images



CNGB3 Antibody (N-term) (Cat. #AP12708a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the CNGB3 antibody detected the CNGB3 protein (arrow).

CNGB3 Antibody (N-term) - Background

This gene encodes the beta subunit of a cyclic nucleotide-gated ion channel. The encoded beta subunit appears to play a role in modulation of channel function in cone photoreceptors. This heterotetrameric channel is necessary for sensory transduction, and mutations in this gene have been associated with achromatopsia 3, progressive cone dystrophy, and juvenile macular degeneration, also known as Stargardt Disease.

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CNGB3 Antibody (N-term) - References

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Azam, M., et al. Mol. Vis. 16, 774-781 (2010) :
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