

CNGB3 Rabbit pAb

CatalogNo: YN0624

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 88kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein. AA range:505-605

Specificity CNGB3 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name CNGB3

Protein Name 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)

Organism	Gene ID	UniProt ID
Human	54714;	Q9NQW8;
Mouse		Q9JJZ9;

Cellular Localization Membrane; Multi-pass membrane protein.

Tissue specificity Expressed specifically in the retina.

Function Disease:Defects in CNGB3 are the cause of achromatopsia type 3 (ACHM3) [MIM:262300]; also known as Pingelapese blindness. ACHM3 is a congenital complete achromatopsia and is distinct from total colorblindness mainly because of the consistent concurrence of severe myopia.,Disease:Defects in CNGB3 are the cause of Stargardt disease type 1 (STGD1) [MIM:248200]. STGD1 is one of the most frequent causes of macular degeneration in childhood. It is characterized by macular dystrophy with juvenile-onset, rapidly progressive course, alterations of the peripheral retina, and subretinal deposition of lipofuscin-like material. STGD1 inheritance is autosomal recessive.,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.,similarity:Belongs to the cyclic nucleotide-gated cation channel (TC 1.A.1.5) family.,similarity:Contains 1 cyclic nucleotide-binding domain.,subunit:Heterooligomeric complex with CNGA3.,tissue specificity:Expressed specifically in the retina.,

Validation Data

Contact information

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