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Goat Anti-CNGB3 (aa175-186) Antibody

Purified Goat Polyclonal Antibody
Catalog # AF4315a

Product Information

Application	WB, E
Primary Accession	Q9NQW8
Other Accession	NP_061971.3, 54714
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	92167

Additional Information

Gene ID	54714
Other Names	CNGB3; cyclic nucleotide gated channel beta 3; ACHM1; CNG channel beta-3; cone photoreceptor cGMP-gated cation channel beta-subunit; cyclic nucleotide-gated cation channel beta-3; cyclic nucleotide-gated cation channel modulatory subunit
Dilution	WB~~1:1000 E~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	Peptide with sequence C-ESDDKPTEHYYR, from the internal region of the protein sequence according to NP_061971.3.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat Anti-CNGB3 (aa175-186) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

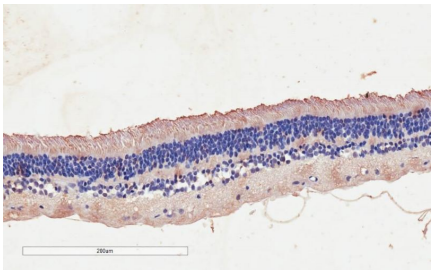
Name	CNGB3 {ECO:0000303|PubMed:37463923}
Function	Pore-forming subunit of the cone cyclic nucleotide-gated channel. Mediates cone photoresponses at bright light converting transient changes in intracellular cGMP levels into electrical signals. In the dark, cGMP levels are high and keep the channel open enabling a steady inward current carried by Na(+) and Ca(2+) ions that leads to membrane depolarization and

	neurotransmitter release from synaptic terminals. Upon photon absorption cGMP levels decline leading to channel closure and membrane hyperpolarization that ultimately slows neurotransmitter release and signals the presence of light, the end point of the phototransduction cascade. Conducts cGMP- and cAMP-gated ion currents, with permeability for monovalent and divalent cations.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed specifically in the retina.

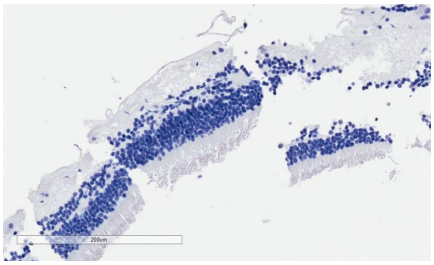
References

Peng C, Rich ED, Varnum MD.

Images



AF4315a (2 µg/ml) staining of paraffin embedded Human Retina. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.



AF4315a Negative Control showing staining of paraffin embedded Human Retina, with no primary antibody.