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Datasheet for 200-301-F14

CNGA1/3 Antibody

Overview

Description:	Anti-CNGA1/3 (MOUSE) Monoclonal Antibody - 200-301-F14
Item No.:	200-301-F14
Size:	100 µg
Applications:	IHC
Reactivity:	Human, Mouse, Rat, Fish
Host Species:	Mouse

Product Details

Background:	CNGA1 and 3 belong to the cyclic nucleotide-gated channel family (CNG). They produce the primary electrical signal in photoreceptors upon absorption of a photon. These channels also generate the electrical signal in olfactory receptors, and are expressed in several other sensory and nonsensory tissues. They are voltage dependent, nonselective cation channels that are activated by direct binding of cyclic nucleotides.
Synonyms:	Cyclic nucleotide gated channel
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S36-12
Format:	IgG1

Target Details

Gene Name:	SLC5A5
Reactivity:	Human, Mouse, Rat, Fish
Immunogen Type:	Recombinant Protein
Immunogen:	CNGA1/3 Antibody was produced in mice by repeated immunizations with fusion protein corresponding to the cytoplasmic C-terminus of goldfish CNG.

Purity/Specificity:	Anti-CNGA1/3 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with CNGA1/3 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Recognizes both rod and cone alpha subunits. Cross-reactivity with CNGA1/3 from other sources has not been determined. Ion Channels research.
Relevant Links:	• EMBL - AAO16601 • UniProtKB - Q804I6

Application Details

Tested Applications:	IHC
Application Note:	Anti-CNGA1/3 Antibody has been tested by IHC-P and is suitable for use in WB and IP. Expect a band approximately ~80kDa on specific lysates (size will vary depending on species and isoform). Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
IP:	User Optimized
WB:	1ug/mL

Formulation

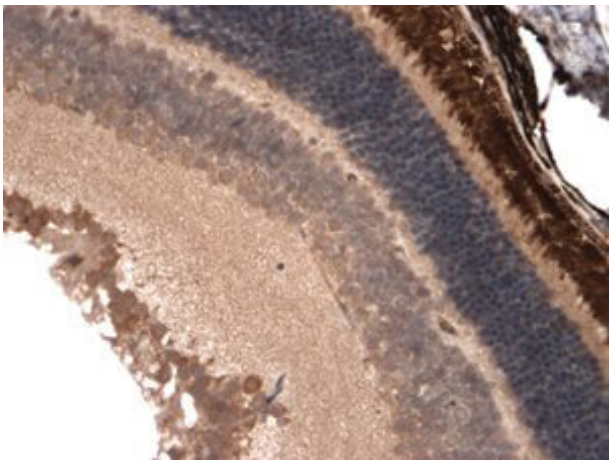
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of mouse anti-CNGA1/3 antibody. Tissue: Mouse eye, retina. Fixation: N/A. Primary Antibody: CNGA1/3 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Staining: Nervous fiber stained brown (top right) and weak purple staining of the second level of the retina neurons (center).

Disclaimer

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