

**DATASHEET**

**CNGA3 Rabbit Polyclonal Antibody**

CAT. NO. APA13387

**KEY FEATURES**

Target	CNGA3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

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 and Ca(2+) ions that leads to membrane depolarization and neurotransmitter release from synaptic terminals.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

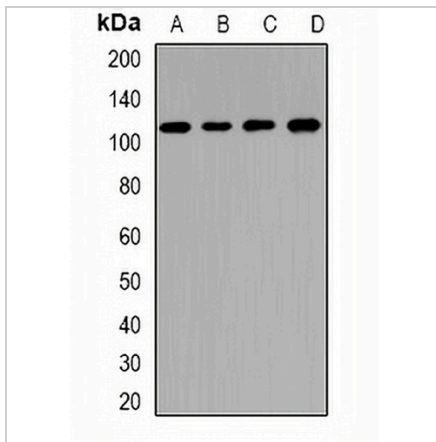
Description	Rabbit polyclonal antibody to CNGA3
Specificity	Recognizes endogenous levels of CNGA3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CNGA3
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 76-79 kD; Observed: 110 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CNCG3; Cyclic nucleotide-gated cation channel alpha-3; Cone photoreceptor cGMP-gated channel subunit alpha; Cyclic nucleotide-gated channel alpha-3; CNG channel alpha-3; CNG-3; CNG3
Gene Symbol	CNGA3
Entrez Gene	1261(Human)
SwissProt	Q16281(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of CNGA3 expression in BT474 (A), U87 (B), mouse pancreas (C), rat liver (D) whole cell lysates. (Predicted band size: 76-79 kD; Observed band size: 110 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.