DATASHEET

CNGA1 Rabbit Polyclonal Antibody

CAT. NO. APA10671

KEY FEATURES

Target	CNGA1	**Source / Host**	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Dog, Pig	**Clonality**	Polyclonal
Applications	WB, IHC	**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 rod cyclic nucleotide-gated channel. Mediates rod photoresponses at dim 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.

APPLICATION

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

WB	1:500 - 1:1000
IHC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to CNGA1
Specificity	Recognizes endogenous levels of CNGA1 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CNGA1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 79 kD; Observed: 79 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	CNCG; CNCG1; cGMP-gated cation channel alpha-1; Cyclic nucleotide-gated cation channel 1; Cyclic nucleotide-gated channel alpha-1; CNG channel alpha-1; CNG-1; CNG1; Cyclic nucleotide-gated channel photoreceptor; Rod photoreceptor cGMP-gated channel subunit alpha
Gene Symbol	CNGA1
Entrez Gene	1259(Human); 12788(Mouse); 85259(Rat)
SwissProt	P29973(Human); P29974(Mouse); Q62927(Rat)

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

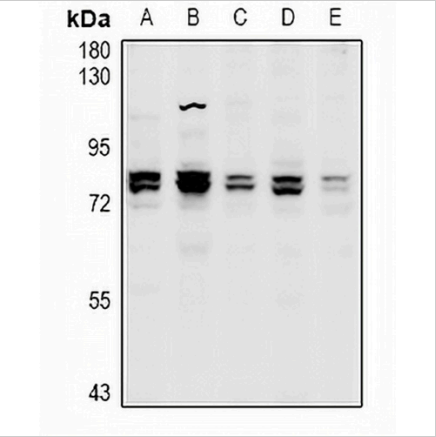
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

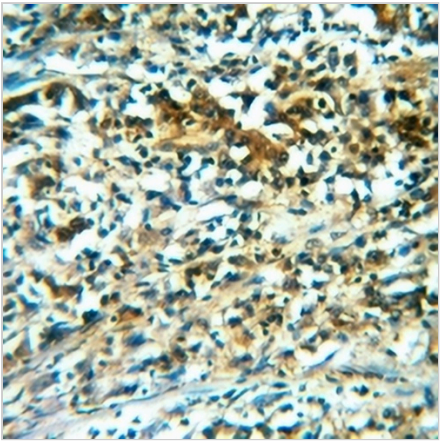
CNGA1 Rabbit Polyclonal Antibody

CAT. NO. APA10671

DATA



Western blot analysis of CNGA1 expression in CT26 (A), PC12 (B), A549 (C), MCF7 (D), LO2 (E) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 79 kD)



Immunohistochemical analysis of CNGA1 staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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.