

Rabbit CNGA2 Polyclonal Antibody | anti-CNGA2 antibody

CNGA2 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290150	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)	Flow Cytometry, Functional Assay, ELISA, Western Blot

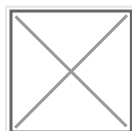
PRODUCT SYNONYMS

CNGA2; Polyclonal Antibody; CNGA2 Antibody (N-term); Cyclic nucleotide-gated olfactory channel; Cyclic nucleotide-gated cation channel 2; Cyclic nucleotide-gated channel alpha-2; CNG channel alpha-2; CNG-2; CNG2; CNCA; CNCA1; CNCG2; anti-CNGA2 antibody

PRODUCT SPECIFICATIONS

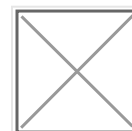
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rabbit, Rat)
Clonality	Polyclonal
Isotype	IgG
Specificity	This CNGA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-102 amino acids from the N-terminal region of human CNGA2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	75-102
Sequence Length	664
Applicable Applications for anti-CNGA2 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Function	Pore-forming subunit of the olfactory cyclic nucleotide-gated channel. Operates in the cilia of olfactory sensory neurons where chemical stimulation of the odorant is converted to an electrical signal. Mediates odorant-induced cAMP-dependent Ca(2+) influx triggering neuron depolarization. The rise of intracellular Ca(2+) levels potentiates the olfactory response by activating Ca(2+)- dependent Cl(-) channels, but it also serves as a negative feedback signal to desensitize the channel for rapid adaptation to odorants. Conducts cAMP- and cGMP-gated ion currents, with permeability for monovalent and divalent cations.
Cellular Location	Cell projection, cilium membrane {ECO:0000250 UniProtKB:Q00195}; Multi-pass membrane protein
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

CNGA2 Antibody (N-term) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)

Western blot analysis of CNGA2 Antibody (N-term) in K562 cell line lysates (35ug/lane). CNGA2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CNGA2 antibody	CNGA2 represents the alpha subunit of a cyclic nucleotide-gated olfactory channel. The encoded protein contains a carboxy-terminal leucine zipper that mediates channel formation.
Product Categories/Family for anti-CNGA2 antibody	Cardiovascular; Neuroscience
References	Qu, W., et al. J. Gen. Physiol. 127(4):375-389(2006) Hofmann, F., et al. Pharmacol. Rev. 57(4):455-462(2005) Yoo, D., et al. J. Biol. Chem. 279(8):6863-6873(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	42718011
NCBI GeneID	1260
NCBI Accession #	NP_005131.1
NCBI GenBank Nucleotide #	NM_005140.1
UniProt Accession #	Q16280; A0AVD0
Molecular Weight	76048
NCBI Official Full Name	cyclic nucleotide-gated olfactory channel
NCBI Official Synonym Full Names	cyclic nucleotide gated channel alpha 2
NCBI Official Symbol	CNGA2
NCBI Official Synonym Symbols	CNCA; CNG2; CNCA1; OCNC1; OCNCa; OCNCALPHA
NCBI Protein Information	cyclic nucleotide-gated olfactory channel
UniProt Protein Name	Cyclic nucleotide-gated olfactory channel
UniProt Gene Name	CNGA2
UniProt Synonym Gene Names	CNCA; CNCA1; CNCG2; CNG channel alpha-2; CNG-2; CNG2
UniProt Entry Name	CNGA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cnga2-antibody-flow-cytometry-western-blot-elisa/290150>