CNG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CNG2, Polyclonal Antibody
Full Product Name	Anti - CNG2 (Cyclic Nucleotide-Gated Channels 2)
Product Gene Name	anti-CNG2 antibody
Product Synonym Names	CNG2 (Cyclic Nucleotide-Gated Channels 2)
Clonality	Polyclonal
Isotype	IgG
Host	Host: Rabbit Source: Rat
Species Reactivity	Rat
Form/Format	Affinity Purified Supplied as a liquid in PBS, pH 7.4 and 0.1% BSA, 0.1% sodium azide, 40% glycerol.
Purity/Purification	Purified over the peptide-Sepharose column
Concentration	1mg/ml (lot specific)
Specificity	The 19 AA rat control peptide is 90% conserved in mouse, 80% in rabbit and 72% in bovine CNG2. No significant sequence homology is detected with other CNGs. The control peptide, because of small size (MW 2.19kD), is not suitable for Western. It should be used for ELISA and antibody blocking to confirm specificity of antibodies
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and add glycerol (40-50%). Freeze at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Immunogen	A 19 AA Peptide sequence near C-terminus of rat/mouse CNG2 (1). The peptide was coupled to KLH
Product Categories/Family for anti-CNG2 antibody	Abs to Ion Channel
Applications Tested/Suitable for anti-CNG2 antibody	ELISA, Western Blot
Application Notes for anti-CNG2 antibody	**Dilution:** Western Blot: 1:1000-1:5000 for neat serum and 1-10ug/ml for affinity pure antibody using ECL. ELISA:1:10,000-50,000 for neat serum and 0.5-1ug/ml for affinity purified. Control peptide can be used to coat ELISA plates at 1ug/ml. Optimal dilutions to be determined by the researcher.
Related Product Information for anti-CNG2 antibody	The cyclic nucleotides cAMP and cGMP are implicated in signal transduction events such as the visual transduction, relaxation of smooth muscles, intestinal secretion of water and salt, reabsorption of Na+ and water in the distal tubule of the nephrons. cAMP/cGMP activate Ca2+ -permeable ion channels called cyclic nucleotide-gated channels (CNG or CNC). Activation of CNG leads to depolarization of the membrane voltage and to a concomitant increase of the cytosolic Ca2+. CNG consists of two distinct subunits, designated a and b subunits. Several CNG a-subunits (CNG alpha 1-3) & beta subunits (subunit 2 or CNGb1-2 or CNG4-5) and numerous isoforms. a-subunit can form functional channel by themselves, whereas, b-subunits modulate the channel property of a-subunits. CNG display intracellular N and C-termini, 6 transmembrane domains or segments (S1-S6). The region between S5 and S6 contains the ion-conducting pore (P). The cyclic nucleotide-binding region is found at the c-terminus. Native functional CNG may exists as heteromultimer containing some combination of a, and b subunits.

Product References and Citations for anti-CNG2 antibody	• Dhallan RS et al (199 Ding C et al (1990) Nature 347, 184; Ruiz ML et al (1996) Gene Accession # Q62398; Distler M et al (1994) Neuropharmacol. 33, 1275. Ludwig J et al (1990) FEBS Lett. 270, 24; Biel M et al (1993) FEBS Lett. 329, 134
Other Notes	Small volumes of anti-CNG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CNG2 purchase	MBS613774 is an antibody targeting CNG2. Also known as Anti - CNG2 (Cyclic Nucleotide-Gated Channels 2). Reactive in Rat. Host: Rabbit Source: Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CNG2. It may not necessarily be applicable to this product.

Protein Family	Cyclic nucleotide-gated olfactory channel
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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