

Rabbit Anti-GARP antibody

SL12093R

GARP
环磷酸鸟苷门控Channel proteinCNG4抗体
CNCG2; CNCG3L; CNCG4; CNG 4; CNG-4; CNG channel 4; CNG channel beta 1; CNG4; CNGB 1; CNGB1; CNGB1B; Cyclic nucleotide gated cation channel 4; Cyclic nucleotide gated cation channel; Cyclic nucleotide gated cation channel beta 1; Cyclic nucleotide gated cation channel gamma; Cyclic nucleotide gated cation channel modulatory subunit; Cyclic nucleotide gated channel (photoreceptor) cGMP gated 3 (gamma) like; Cyclic nucleotide gated channel beta 1; GAR1; Glutamic acid rich protein; RCNC2; RCNCb; RCNCbeta; RP45; CNGB1_HUMAN.
Rabbit
Polyclonal
Human, Mouse, Rat, Pig, Cow, Horse, Rabbit, Sheep,
ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
140kDa
The cell membrane
Lyophilized or Liquid
1mg/ml
KLH conjugated synthetic peptide derived from human CNG4:856- 960/1251 <extracellular></extracellular>
IgG
affinity purified by Protein A
0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed

Product Detail:	Cyclic nucleotide-gated (CNG) cation channels are heteromeric complexes made up of principal alpha and modulatory beta subunits (1,2). The alpha subunits consist of CNG1-3 and form functional cation channels by themselves (1,2). The beta subunits consist of CNG4-6 and, unlike the alpha subunits, do not form functional channels, but rather modify the properties of channels (1,2). CNG channels are essential components of olfactory and visual transduction (1,2). In olfactory neurons, CNG2, CNG4.3 and CNG5 form Ca2+ permeable channels, which open and depolarize the cell in response to cAMP (1-3). In rod photoreceptors, CNG1 and CNG4.1 combine to form Ca ion permeable channels, which give rise to a current in response to cGMP (1-3). CNG3 and CNG6 are expressed in cone receptors and may combine to form a native cGMP-activated channel (2,3). CNG channels have been implicated in other areas (4-6). CNG1 is also expressed in medium-sized and small-sized arterics, suggesting a role for CNG in the regulation of arterial blood pressure and of blood supply to different regions (4). CNG1, CNG4.1 and CNG4.2 have been detected in the rat pineal gland (5). CNG2, CNG4.3 and CNG5 are present in GT1 cell lines and may play a role in the secretion of gonadotropin-releasing hormone (6). Function: GARP is a subunit of cyclic nucleotide-gated (CNG) channels, nonselective cation channels, which play important roles in both visual and olfactory signal transduction. When associated with CNGA1, it is involved in the regulation of in the levels of intracellular GMP. Detects in GARP are the cause of retinitis pigmentos at type 45 (RP45). RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field and eventually central vision as well. Subunit: Heterooligomeric complex with CNGA1. Subellular Location: Membrane; Multi-pass membrane protein. Tissue Specificity: Prominently expressed in retina. DISEASE: Defects in CNGB1 are the cause of retinitis pigmentosa type
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Contains 1 avalie nucleotide hinding domain
Contains 1 cyclic nucleotide-binding domain.
SWISS:
Q14028
Gene ID:
1258
Database links:
Entrez Gene: 1258 Human
Entrez Gene: 333329 Mouse
Entrez Gene: 83686 Rat
Entrez Gene: 83686 Rat Omim: 600724 Human SwissProt: Q14028 Human • wissProt: O35788 Rat
SwissProt: Q14028 Human
• <u>wissProt: O35788</u> Rat
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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