



CNG-1 β Polyclonal Antibody

Catalog No	BYab-16408
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	CNGB1
Protein Name	Cyclic nucleotide-gated cation channel beta-1
Immunogen	The antiserum was produced against synthesized peptide derived from human CNGB1. AA range:571-620
Specificity	CNG-1 β Polyclonal Antibody detects endogenous levels of CNG-1 β protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	CNGB1; CNCG2; CNCG3L; CNCG4; RCNC2; Cyclic nucleotide-gated cation channel beta-1; Cyclic nucleotide-gated cation channel 4; CNG channel 4; CNG-4; CNG4; Cyclic nucleotide-gated cation channel gamma; Cyclic nucleotide-gated cation channel mo
Observed Band	102kD
Cell Pathway	Membrane; Multi-pass membrane protein.
Tissue Specificity	Retina,
Function	disease:Defects in CNGB1 are the cause of retinitis pigmentosa type 25 (RP25) [MIM:268000]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.,similarity:Belongs to the cyclic nucleotide-gated cation channel (TC 1.A.1.5) family.,similarity:Contains 1 cyclic nucleotide-binding domain.,subunit:Heterooligomeric complex with CNGA1.,

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Background

In humans, the rod photoreceptor cGMP-gated cation channel helps regulate ion flow into the rod photoreceptor outer segment in response to light-induced alteration of the levels of intracellular cGMP. This channel consists of two subunits, alpha and beta, with the protein encoded by this gene representing the beta subunit. Defects in this gene are a cause of cause of retinitis pigmentosa type 45. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013],

matters needing attention

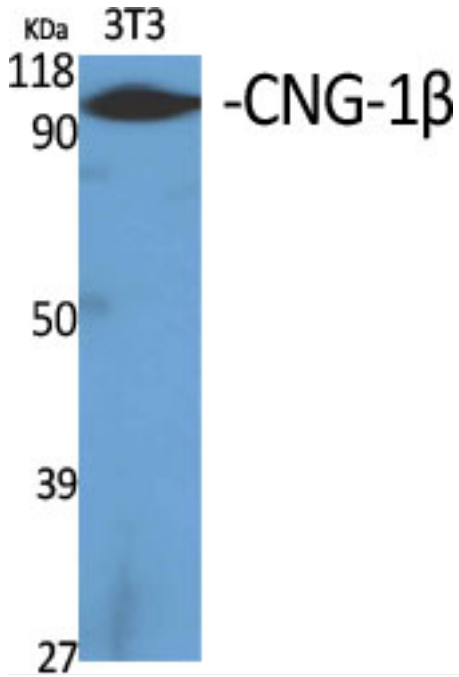
Avoid repeated freezing and thawing!

Usage suggestions

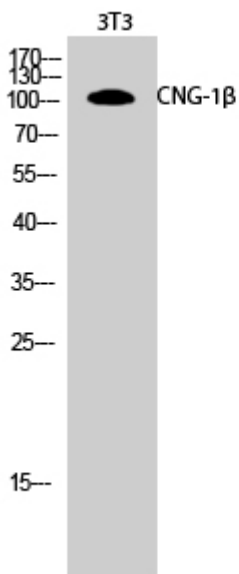
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using CNG-1 β Polyclonal Antibody



Western Blot analysis of 3T3 cells using CNG-1 β Polyclonal Antibody



A Western blot analysis of lysates from NIH/3T3 and A549 cells, using CNGB1 Antibody. The lane on the right is blocked with the synthesized peptide.

CNGB1--



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