



CNG-1 β Monoclonal Antibody

Catalog No	YP-mAb-16408
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CNGB1
Immunogen	The antiserum was produced against synthesized peptide derived from human CNGB1. AA range:571-620
Specificity	CNG-1 β Monoclonal 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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	cGMP gated cation channel alpha 1;cGMP-gated cation channel alpha-1;CNCG; CNCG1;CNG 1;CNG channel alpha 1;CNG channel alpha-1;CNG-1;CNG1; Cnga1;CNCA1_HUMAN;Cyclic nucleotide gated cation channel 1;Cyclic nucleotide gated channel alpha 1;Cyclic nucleotide gated channel photoreceptor; Cyclic nucleotide-gated cation channel 1;Cyclic nucleotide-gated channel alpha-1;Cyclic nucleotide-gated channel;Interleukin 1 homologue;OTTHUMP218675; OTTHUMP223313;OTTHUMP223314;photoreceptor;RCNC1;RCNCa; RCNCalpha;Rod photoreceptor cGMP gated channel subunit alpha;Rod photoreceptor cGMP-gated channel subunit alpha;RP49;CNG-1 β ;CNGB1;Cyclic nucleotide-gated cation channel beta-1;CNCG2;CNCG3L;CNCG4;RCNC2; 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
Calculated Molecular Weight	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.,

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],

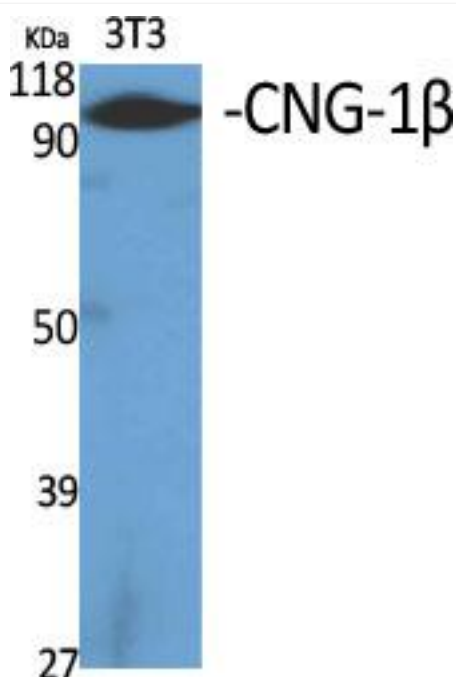
matters needing attention

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 Monoclonal Antibody