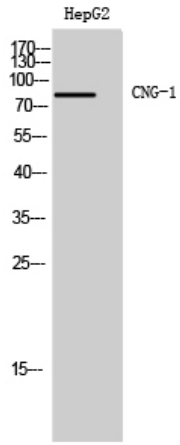
CNG-1 Polyclonal Antibody

Catalog No	YP-Ab-16407
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	CNGA1
Protein Name	cGMP-gated cation channel alpha-1
Immunogen	The antiserum was produced against synthesized peptide derived from human CNGA1. AA range:401-450
Specificity	CNG-1 Polyclonal Antibody detects endogenous levels of CNG-1 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: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CNGA1; CNCG; CNCG1; cGMP-gated cation channel alpha-1; Cyclic nucleotide-gated cation channel 1; Cyclic nucleotide-gated channel alpha-1; CNG channel alpha-1; CNG-1; CNG1; Cyclic nucleotide-gated channel; photoreceptor; Rod photoreceptor cG
Observed Band	80kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Rod cells in the retina.
Function	caution:It is uncertain whether Met-1 or Met-5 is the initiator.,disease:Defects in CNGA1 are a cause of retinitis pigmentosa autosomal recessive (ARRP) [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.,function:Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cyclic GMP which leads to an opening of the cation channel and thereby causing a depolarization of rod photoreceptors.,online information:Retina International's Scientific Newsletter,similarity:Belongs to the cyclic nucleotide-gated cation channel (TC 1.A.1.5) family.,similarity:Contains 1 cyclic

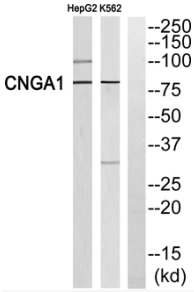
nucleotide-binding domain.,subuni

Background	The protein encoded by this gene is involved in phototransduction. Along with another protein, the encoded protein forms a cGMP-gated cation channel in the plasma membrane, allowing depolarization of rod photoreceptors. This represents the last step in the phototransduction pathway. Defects in this gene are a cause of retinitis pigmentosa autosomal recessive (ARRP) disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008],
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.

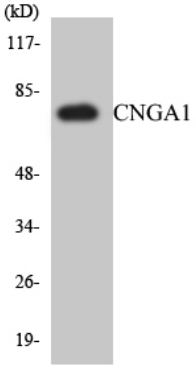
Products Images



Western Blot analysis of HepG2 cells using CNG-1 Polyclonal Antibody



Western blot analysis of CNGA1 Antibody. The lane on the right is blocked with the CNGA1 peptide.



Western blot analysis of the lysates from HepG2 cells using CNGA1 antibody.