

# CNGA3 Polyclonal antibody

Catalog Number: 21657-1-AP

## Basic Information

**Catalog Number:**

21657-1-AP

**Size:**

900 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16385

**GenBank Accession Number:**

BC096298

**GeneID (NCBI):**

1261

**UNIPROT ID:**

Q16281

**Full Name:**

cyclic nucleotide gated channel alpha  
3

**Calculated MW:**

694 aa, 79 kDa

**Observed MW:**

98 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Species Specificity:**

human, mouse

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

WB : HEK-293 cells,

IP : mouse brain tissue,

IHC : mouse eye tissue,

## Background Information

CNGA3 is a member of the cyclic nucleotide-gated cation channel protein family which is required for normal vision and olfactory signal transduction. Mutations in CNGA3 gene are associated with achromatopsia (rod monochromacy) and color blindness. Three alternatively spliced transcripts encoding different isoforms have been described. This antibody detects CNGA3 with an apparent molecular weight of 98 kDa which has been reported (PMID: 20378608).

## Storage

**Storage:**

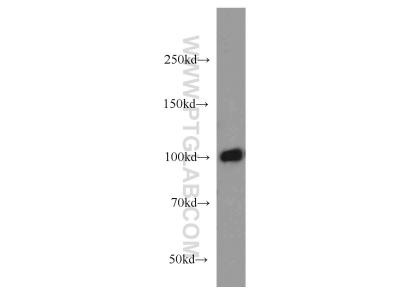
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

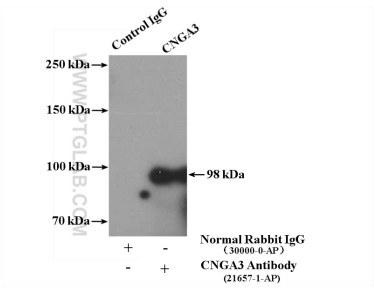
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

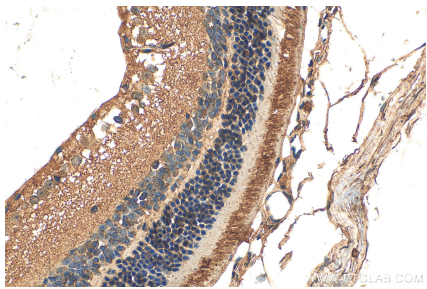
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 21657-1-AP (CNGA3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-CNGA3 (IP:21657-1-AP, 4ug; Detection:21657-1-AP 1:300) with mouse brain tissue lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 21657-1-AP (CNGA3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).