

For Research Use Only

# CRX Polyclonal antibody

Catalog Number: 12047-1-AP

4 Publications



## Basic Information

### Catalog Number:

12047-1-AP

### Size:

1000 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2677

### GenBank Accession Number:

BC016664

### GeneID (NCBI):

1406

### UNIPROT ID:

O43186

### Full Name:

cone-rod homeobox

### Calculated MW:

299 aa, 32 kDa

### Observed MW:

37 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 1:2000-1:8000

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : Y79 cells,

IP : Y79 cells,

IHC : mouse eye tissue, mouse testis tissue

## Background Information

Cone-rod homeobox (Crx) is a homeodomain transcription factor and member of the Otx family, which has been thought to play a critical role in determining and maintaining the phenotype of both pinealocytes and retinal photoreceptors [PMID:17467693]. In the mammalian retina, Crx plays an essential role in the normal development and maintenance of cones and rods and regulates expression of the network of genes that characterize the retina [PMID:17653270]. Elimination of Crx by disruption of the homeobox domain results in loss of the image-forming visual system but not the non-image-forming visual system controlling circadian rhythms [PMID:20438719].

## Notable Publications

Author	Pubmed ID	Journal	Application
Haibin Tian	36185374	iScience	IF
Tomohiro Masuda	25392503	J Neurosci	WB, ColP
Christoffer Nord	38546215	Dev Dyn	IHC

## 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

For technical support and original validation data for this product please contact:

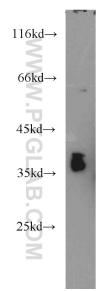
T: 4006900926

E: Proteintech-CN@ptglab.com

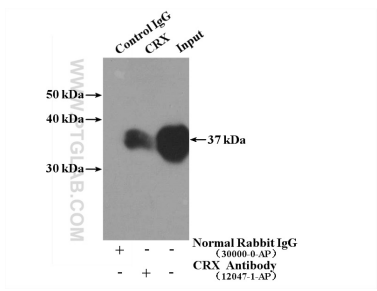
W: ptgcn.com

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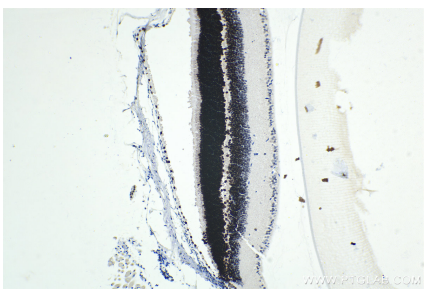
Selected Validation Data



Y79 cells were subjected to SDS PAGE followed by western blot with 12047-1-AP (CRX antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-CRX (IP:12047-1-AP, 4ug; Detection:12047-1-AP 1:500) with Y79 cells lysate 1920ug.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 12047-1-AP (CRX antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).