

For Research Use Only

# Alpha B Crystallin Polyclonal antibody

Catalog Number: 15808-1-AP

Featured Product

16 Publications



## Basic Information

### Catalog Number:

15808-1-AP

### Size:

350 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8543

### GenBank Accession Number:

BC007008

### GeneID (NCBI):

1410

### UNIPROT ID:

P02511

### Full Name:

crystallin, alpha B

### Calculated MW:

175 aa, 20 kDa

### Observed MW:

20-22 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ELISA

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, fish

### Positive Controls:

WB : mouse heart tissue, U2OS cells, rat heart tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

IP : U2OS cells,

IHC : mouse eye tissue, mouse heart tissue

IF/ICC : U2OS cells,

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

## Background Information

Alpha B-crystallin, encoded by CRYAB gene, is multifunctional, serving as both a major structural protein in the lens and a small heat-shock protein in other tissues in mammals. Alpha B-crystallin may contribute to the transparency and refractive index of the lens. Single nucleotide polymorphisms (SNPs) in the promoter region of CRYAB gene have been associated with in multiple sclerosis. Mutations in the CRYAB gene cause distinct clinical phenotypes including isolated posterior polar cataract, myofibrillar myopathy, cardiomyopathy, or a multisystemic disorder combining all these features. Impairment of alpha-B crystallin dimerization may be relevant to the pathogenesis of these disorders.

## Notable Publications

Author	Pubmed ID	Journal	Application
Daniele Vergara	29138676	Oxid Med Cell Longev	WB
Thomas G Martin	34487557	J Cell Biochem	WB
Yuchen Yang	33839756	Brief Bioinform	IF

## 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:

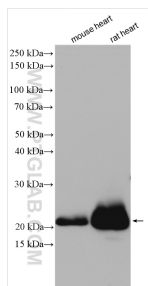
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

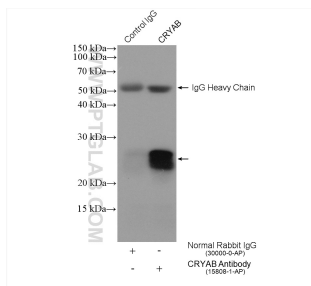
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

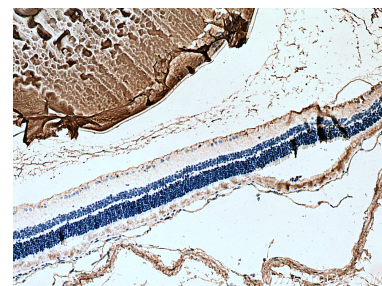
## Selected Validation Data



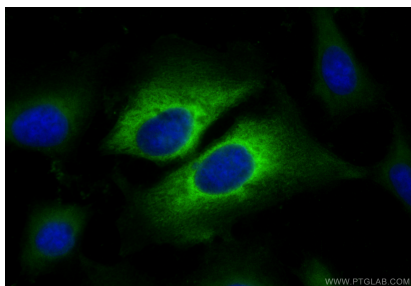
Various lysates were subjected to SDS PAGE followed by western blot with 15808-1-AP (Alpha B Crystallin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-Alpha B Crystallin (IP:15808-1-AP, 4ug; Detection:15808-1-AP 1:500) with U2OS cells lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 15808-1-AP (Alpha B Crystallin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using Alpha B Crystallin antibody (15808-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).