

# Human Crystallin alpha B/CRYAB antibody

Catalog Number: ACB0617

## PRODUCT INFORMATION

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**Catalog number**

ACB0617

**Clone No.**

2E8.

**Product type**

Monoclonal Antibody

**UnitProt No.**

P02511

**NCBI Accession No.**

NP\_001876.1

**Alternative Names**

Crya2, Crya-2, Cryab, Crystallin alpha B, Alpha-crystallin B chain, Heat shock protein beta-5, HspB5, Renal carcinoma antigen NY-REN-27, Rosenthal fiber component

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human Crystallin alpha B (1-175 aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

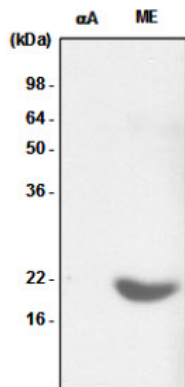
alpha-Crystallins are composed of two gene products; alpha-Crystallin A and B, for acidic and basic, respectively. alpha-Crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha-Crystallin A and B subunits have a 3:1 ratio, respectively. Two additional functions of alpha-crystallins are an autokinase activity and participation in the intracellular architecture. alpha-Crystallin B is expressed widely in many tissues and organs and occurs in many neurological diseases.

### General References

- Hasan, A., et al. (2002) *Biochemistry* 41(52) 15876-15882.  
Kamradt, M.C., et al (2002) *J. Biol. Chem.* 277(41) 38731-38736.  
Reddy, G.B., et al (2002) *FEBS lett.* 522(1-3) 59-64.  
Ito, H., et al (2002) *J. Biochem.* 131(4) 593-603.

## DATA

### Western blot analysis (WB)

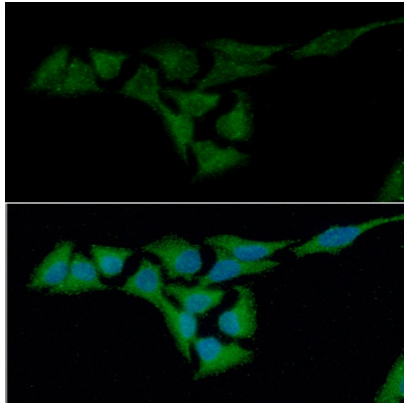


The recombinant protein (50ng) of crystallin alpha A (alphaA) and the tissue lysates (40ug) of mouse eye (ME) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human crystallin alpha B antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of Crystallin alpha B in HeLa cells. The cell was stained with ACB0617 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).