# Product Name: Crystallin-αB (phospho Ser19) Rabbit

Polyclonal Antibody Catalog #: APRab04505



### **Summary**

**Production Name** Crystallin-αB (phospho Ser19) Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** WB,IHC,ELISA **Reactivity** Human,Mouse,Rat

#### **Performance**

**Conjugation** Unconjugated

**Modification** Phospho Antibody

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

#### **Immunogen**

Gene Name CRYAB

CRYAB; CRYA2; Alpha-crystallin B chain; Alpha(B)-crystallin; Heat shock protein beta-5; Alternative Names

HspB5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component

**Gene ID** 1410.0

P02511.The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

CRYAB around the phosphorylation site of Ser19. AA range:10-59

## **Application**

**Dilution Ratio** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000...

Molecular Weight 24kD

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## **Background**

Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (HSP20) family. They act as molecular chaperones although they do not renature proteins and release them in the fashion of a true chaperone; instead they hold them in large soluble aggregates. Posttranslational modifications decrease the ability to chaperone. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distindisease: Crystallins do not turn over as the lens ages, providing ample opportunity for post-translational modifications or oxidations. These modifications may change crystallin solubility properties and favor senile cataract., disease: Defects in CRYAB are the cause of alpha-B crystallinopathy [MIM:608810]. Alpha-B crystallinopathy is a an autosomal dominant form of desmin-related myopathy (DRM) that results in weakness of the proximal and distal limb muscle (including neck, velopharynx, and trunk muscles), signs of cardiomyopathy and cataract. Patients with progressive myopathy characterized by myofibrillar degeneration that commences at the Z-disk, have been described. Mutations truncate the essential C-terminal domain of the protein required for the chaperone function, disease: Seen as Rosenthal fiber protein in the brain tissue of patients with Alexander disease, function: May contribute to the transparency and refractive index of the lens, mass spectrometry: PubMed:10930324,mass spectrometry: PubMed:8175657,mass spectrometry:With 1 phosphate group PubMed:10930324,mass spectrometry:With 1 phosphate group PubMed:8175657,mass spectrometry:With 2 phosphate groups PubMed:8175657,similarity:Belongs to the small heat shock protein (HSP20) family.,subunit:Aggregates with homologous proteins, including CRYAA and the small heat shock protein HSPB1, to form large heteromeric complexes. Interacts with HSPBAP1 and TTN/titin., tissue specificity: Lens as well as other tissues.,

#### **Research Area**

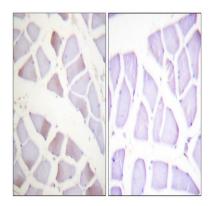
#### **Image Data**

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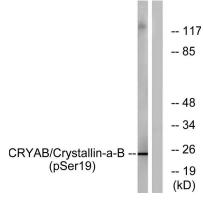
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Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using CRYAB (Phospho-Ser19) Antibody.

The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with nocodazole 1ug/ml 16h, using CRYAB (Phospho-Ser19)

Antibody. The lane on the right is blocked with the phospho peptide.

## Note

For research use only.