

**CRYAB Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8424b****Specification**

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**CRYAB Antibody - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">P02511</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1,<math>\kappa</math></b>
Calculated MW	<b>20159</b>

**CRYAB Antibody - Additional Information****Gene ID** 1410**Other Names**

Alpha-crystallin B chain, Alpha(B)-crystallin, Heat shock protein beta-5, HspB5, Renal carcinoma antigen NY-REN-27, Rosenthal fiber component, CRYAB, CRYA2

**Target/Specificity**

This CRYAB antibody is generated from a mouse immunized with a recombination protein from the human region of human CRYAB.

**Dilution**

WB~~1:1000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CRYAB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CRYAB Antibody - Protein Information****Name** CRYAB ([HGNC:2389](#))**Synonyms** CRYA2, HSPB5**Function** May contribute to the transparency and refractive index of the lens. Has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions. In lens

epithelial cells, stabilizes the ATP6V1A protein, preventing its degradation by the proteasome (By similarity).

#### Cellular Location

Cytoplasm. Nucleus Secreted. Lysosome {ECO:0000250|UniProtKB:P23927}. Note=Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles (PubMed:19464326). Localizes at the Z- bands and the intercalated disk in cardiomyocytes (PubMed:28493373) Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).

#### Tissue Location

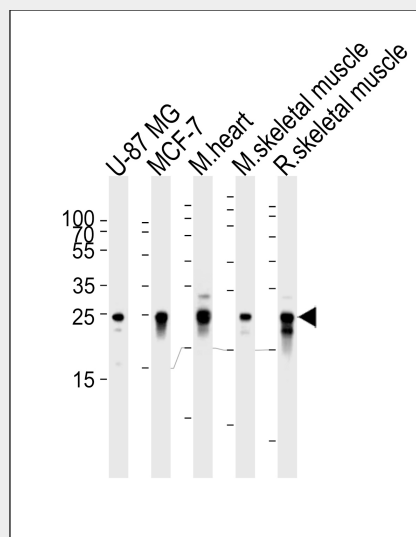
Lens as well as other tissues (PubMed:2387586, PubMed:838078). Expressed in myocardial tissue (PubMed:28493373)

### CRYAB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CRYAB Antibody - Images



Western blot analysis of lysates from U-87 MG, MCF-7 cell line, mouse heart and skeletal muscle, rat skeletal muscle tissue lysates (from left to right), using CRYAB Antibody (Cat. #AM8424b). AM8424b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

### CRYAB Antibody - Background

May contribute to the transparency and refractive index of the lens. Has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions.

#### **CRYAB Antibody - References**

- Kramps J.A.,et al.FEBS Lett. 74:82-84(1977).  
Dubin R.A.,et al.Genomics 7:594-601(1990).  
Iwaki A.,et al.Neurosci. Lett. 140:89-92(1992).  
Yu W.,et al.Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).