

**CRYAB / Alpha B Crystallin Antibody (clone 6D11)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS16121**

**Specification**

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**CRYAB / Alpha B Crystallin Antibody (clone 6D11) - Product Information**

Application	IF, IHC, WB
Primary Accession	<a href="#">P02511</a>
Reactivity	Human, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Calculated MW	20kDa KDa

**CRYAB / Alpha B Crystallin Antibody (clone 6D11) - 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**

Human CRYAB / Alpha B Crystallin

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

CRYAB / Alpha B Crystallin Antibody (clone 6D11) is for research use only and not for use in diagnostic or therapeutic procedures.

**CRYAB / Alpha B Crystallin Antibody (clone 6D11) - 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**

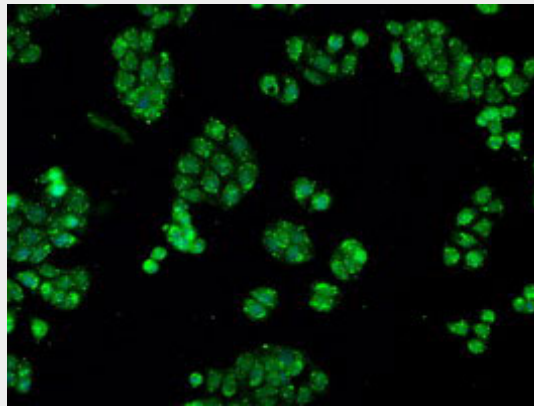
Lens as well as other tissues (PubMed:2387586, PubMed:838078). Expressed in myocardial tissue (PubMed:28493373)

#### **CRYAB / Alpha B Crystallin Antibody (clone 6D11) - Protocols**

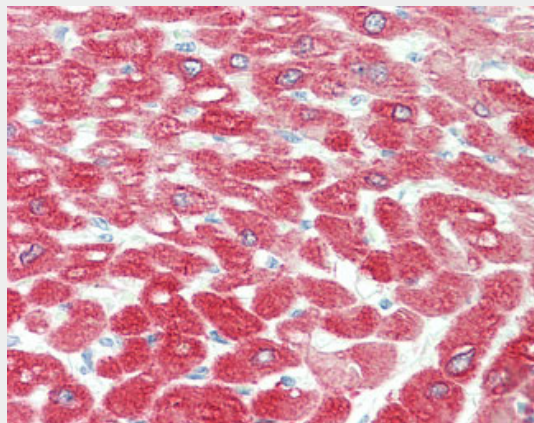
Provided below are standard protocols that you may find useful for product applications.

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

#### **CRYAB / Alpha B Crystallin Antibody (clone 6D11) - Images**



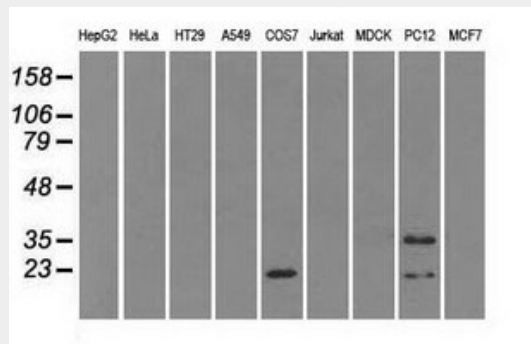
Immunofluorescent staining of HT29 cells using anti-CRYAB mouse monoclonal antibody.



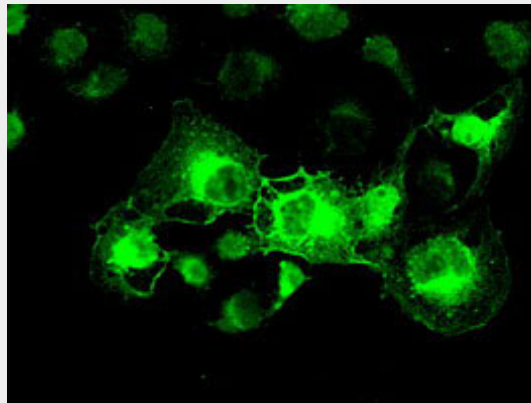
Anti-CRYAB / Alpha B Crystallin antibody IHC staining of human heart.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CRYAB...



Western blot of extracts (35 ug) from 9 different cell lines by using anti-CRYAB monoclonal...



Anti-CRYAB mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...

### **CRYAB / Alpha B Crystallin Antibody (clone 6D11) - 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 / Alpha B Crystallin Antibody (clone 6D11) - 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).

