

Anti-CRYAB / Alpha B Crystallin Antibody (clone 1B6.1-3G4)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17614

Product Information

Application	WB, IHC-P
Primary Accession	P02511
Predicted	Human, Mouse, Rat, Chicken, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	1B6.1-3G4
Calculated MW	20159
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	1410
Alias Symbol	CRYAB
Other Names	CRYAB, Alpha-crystallin B chain, CRYA2, Crystallin, alpha B, CTPP2, Heat shock protein beta-5, HSPB5, Alpha B Crystallin, Alpha(B)-crystallin, Rosenthal fiber component, Heat-shock 20 kD like-protein
Reconstitution & Storage	Protein G purified
Precautions	Anti-CRYAB / Alpha B Crystallin Antibody (clone 1B6.1-3G4) is for research use only and not for use in diagnostic or therapeutic procedures.

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)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.