A-B-Crystallin (CRYAB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	a-B-Crystallin (CRYAB), Polyclonal Antibody
Full Product Name	Rabbit Anti a-B-Crystallin Polyclonal Antibody
Product Gene Name	anti-CRYAB antibody
Product Synonym Names	Rabbit anti Alpha-Crystallin B Polyclonal Antibody; Alpha-Crystallin B; Rb anti Alpha-Crystallin B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer.
Purity/Purification	Purified by Epitope Affinity Purification.
Specificity	This antibody recognizes ~21 kDa of human alpha-BCrystallin protein. The other species are not tested.
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C to -70 degree C. The antibodies can be stored at 2 to 8 degree C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.
Molecular Weight	21 kDa
Antigen Preparation	A synthetic peptide corresponding to C-terminus of human Crystallin-a-B protein.
Positive Control	Mouse liver Lysate
Cellular Location	Cytoplasm//Nuclear
Applications Tested/Suitable for anti-CRYAB antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA), Immunoprecipitation (IP)
Application Notes for anti-CRYAB antibody	WB: 0.1-1 ug/ml ELISA: 0.01-0.1 ug/ml IP: 2-5 ug/ml IHC: 0.5-2 ug/m
Related Product Information for anti-CRYAB antibody	Crystallins belong to small heat-shock proteins. There are two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and Nand C-terminal extensions. Alpha crystallins (?B-Crystallin) 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 (sHSP also known as the HSP20) family. They act as molecular chaperones although they do not re-nature 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. Alpha-A and alpha-B gene products are differentially expressed; alpha-A is preferentially restricted to the lens and alpha-B is expressed widely in many tissues and organs. Elevated expression of alpha-B crystallin occurs in many neurological diseases; a missense mutation cosegregated in a family with a desmin-related myopathy.

Product References and Citations for anti-CRYAB antibody	Mainz,A., Bardiaux,B., Kuppler,F., Multhaup,G., Felli,I.C., Pierattelli,R. and Reif,B. Structural and mechanistic implications of metal binding in the small heat-shock protein alphaB-crystallin. J. Biol. Chem. 287 (2), 1128-1138 (2012).
Other Notes	Small volumes of anti-CRYAB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CRYAB purchase	MBS460639 is an antibody targeting CRYAB. Also known as Rabbit Anti a-B-Crystallin Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRYAB. It may not necessarily be applicable to this product.

NCBI GeneID	1410
Protein Family	Alpha-crystallin
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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