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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 100-401-F18

Alpha B Crystallin Antibody

Overview

Description:	Anti-Alpha B Crystallin (RABBIT) Antibody - 100-401-F18
Item No.:	100-401-F18
Size:	200 µL
Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Host Species:	Rabbit

Product Details

Background:	The alpha-crystallins are major water-soluble lens structural proteins of the vertebrate eye that are related to the small heat shock protein family. The alpha-crystallins possess structural and functional similarities with Hsp25 and Hsp27. Mammalian lens crystallins are divided into alpha, beta and gamma families. Alpha and beta families are further divided into acidic and basic groups (Alpha-A and Alpha-B respectively). In the lens, alpha-crystallin primarily functions to maintain proper refractive index, however it can also function as a molecular chaperone that binds to the denatured proteins, keeping them in solution and thereby maintaining the translucency of the lens. When cellular stress occurs, alpha-crystallin enters its' phosphorylated state and may serve a structural control function and play a role in protein maintenance. In addition to their interaction with proteins, alpha-crystallins also interact with native molecules such as membrane proteins, Golgi matrix protein, structural proteins, nuclear proteins and DNA. Two other functions are an autokinase activity and participation in the intracellular architecture, and it has also been proven that both alpha-A and B prevent apoptosis by inhibiting caspases. Specifically, alpha-B crystallin is found in many cells and organs outside the lens, and alpha B is overexpressed in several neurological disorders and in cell lines under stress conditions.
Synonyms:	AACRYA, Alpha crystallin B chain, CRYA2, CRYAB, CTPP2, HspB5, NY REN 27 antigen, Rosenthal fiber component, Renal carcinoma antigen NY-REN-27, Heat shock protein beta-5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	CRYAB
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Reactivity:	Human, Mouse, Rat, Bovine, Chicken
Immunogen Type:	Conjugated Peptide
Immunogen:	Crystallin Alpha B Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to human alpha B crystallin.
Purity/Specificity:	Anti-Crystallin Alpha B Antibody was prepared from monospecific antiserum by delipidation and defibrination. A BLAST analysis was used to suggest cross-reactivity with Crystallin Alpha B from Human, Mouse, Rat, Cow, and Chicken based on 100% homology with the immunizing sequence. Does not cross-react with α A-crystallin. Cross-reactivity with Crystallin Alpha B from other sources has not been determined. Heat Shock research.
Relevant Links:	<ul style="list-style-type: none">• NCBI - NP_001876.1• GeneID - 1410• UniProtKB - P02511

Application Details

Application Note:	Anti-Crystallin Alpha B Antibody is suitable for use in WB, IHC and IF microscopy. Expect a band approximately ~22kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	User Optimized
WB:	1:5000-10000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.