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Lieferung & Zahlungsart

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Anti-Alpha B Crystallin Antibody

Rabbit Anti-Human Alpha B Crystallin Polyclonal
Catalog No. SPC-126



Discovery through partnership | Excellence through quality

Overview

Product Name

Alpha B Crystallin Antibody

Description

Rabbit Anti-Human Alpha B Crystallin Polyclonal

Species Reactivity

Human, Mouse, Rat, Bovine, Chicken

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:5000), ICC/IF (1:120); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

Synthetic peptide corresponding to human alpha B crystallin conjugated to KLH

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

Rabbit Antiserum

Storage Temperature

-20°C, 4°C

Shipping Temperature

Blue Ice or 4°C

Purification

Rabbit antiserum

Clonality

Polyclonal

Specificity

Detects ~22kDa. Does not cross-react with α A-crystallin.

Cite This Product

Rabbit Anti-Human Alpha B Crystallin Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-126)

Certificate Of Analysis

A 1:5000 dilution of SPC-126 was sufficient for detection of alpha B crystallin in 20 μ g of HeLa cell lysate by ECL immunoblot analysis.

Biological Description

Alternative Names

AACRYA Antibody, Alpha crystallin B chain Antibody, CRYA2 Antibody, CRYAB Antibody, CTPP2 Antibody, HSPB5 Antibody, NY REN 27 antigen Antibody

Research Areas

Cancer, Heat Shock, Cell Signaling, Chaperones, Neuroscience, Trafficking

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_001876.1

Gene ID

1410

Swiss Prot

P02511

Scientific Background

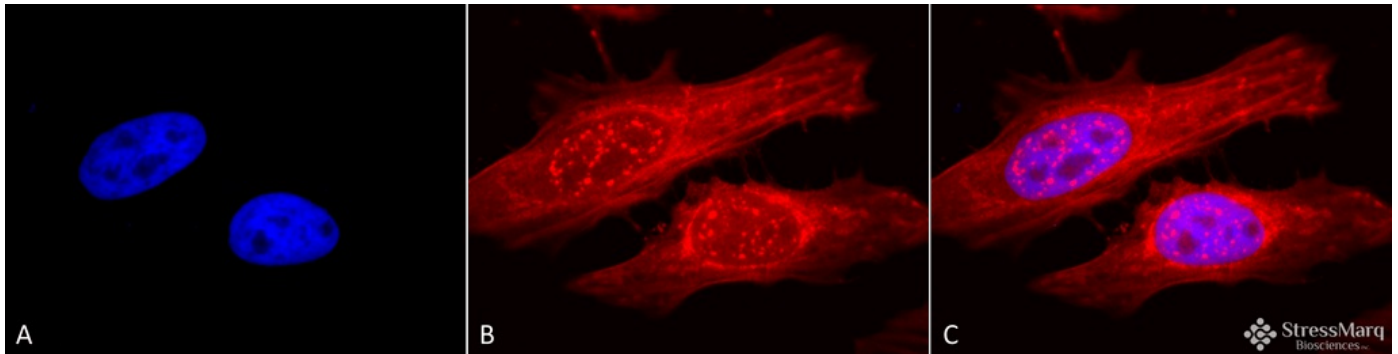
The alpha-crystallins are major water-soluble lens structural proteins of the vertebrate eye that are related to the small heat shock protein family. The alpha-crystallins possess structural and functional similarities with HSP25 and HSP27 (1). Mammalian lens crystallins are divided into alpha, beta 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 (2). 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 (3, 4, 5, 6, and 7). 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 (8). 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 (9).

References

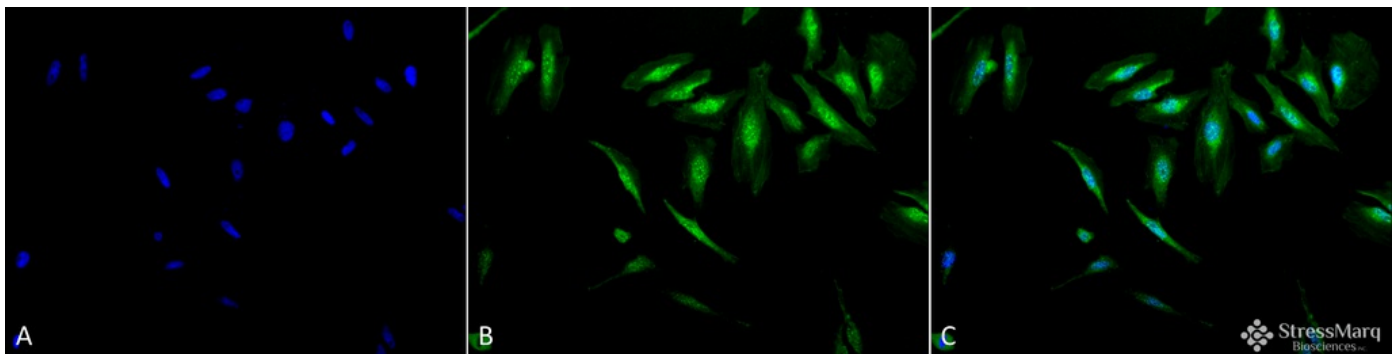
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Product Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Alpha B Crystallin Polyclonal Antibody (SPC-126). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Alpha B Crystallin Polyclonal Antibody (SPC-126) at 1:120 for 12 hours at 4°C. Secondary Antibody: APC Goat Anti-Rabbit (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Actin filament bundles. Nuclear splicing speckles. Exosomes. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Alpha B Crystallin Antibody. (C) Composite. Heat Shocked at 42°C for 1h.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Alpha B Crystallin Polyclonal Antibody (SPC-126). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Alpha B Crystallin Polyclonal Antibody (SPC-126) at 1:120 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Actin filament bundles. Nuclear splicing speckles. Exosomes. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Alpha B Crystallin Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.