abcam

Product datasheet

Anti-Alpha B Crystallin (phospho S59) antibody ab103282

2 Images

Overview

Product name	Anti-Alpha B Crystallin (phospho S59) antibody
Description	Rabbit polyclonal to Alpha B Crystallin (phospho S59)
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Sheep, Pig, Macaque monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human Alpha B Crystallin, phosphorylated at S59 and phosphorylated at S59.Read Abcam's proprietary immunogen policy
Positive control	This antibody gave a positive signal in Human Spinal Cord tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab103282 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 23 kDa (predicted molecular weight: 20 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

Target

Function May contribute to the transparency and refractive index of the lens.

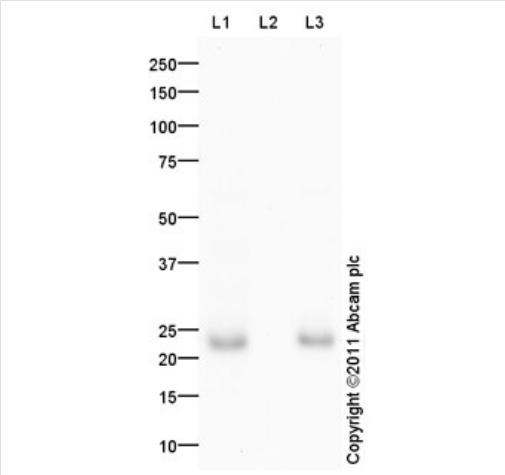
Tissue specificity Lens as well as other tissues.

Involvement in disease Defects in CRYAB are the cause of myofibrillar alpha-B crystallin-related (MFM-CRYAB) [MIM:608810]. A neuromuscular disorder that results in weakness of the proximal and distal limb muscles, weakness of the neck, velopharynx and trunk muscles, hypetrophic cardiomyopathy, and cataract in a subset of patients.

Sequence similarities Belongs to the small heat shock protein (HSP20) family.

Cellular localization Cytoplasm. Nucleus. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

Images



Western blot - Anti-Alpha B Crystallin (phospho S59) antibody (ab103282)

All lanes : Anti-Alpha B Crystallin (phospho S59) antibody (ab103282) at 1 µg/ml

Lane 1 : Human spinal cord tissue lysate - total protein (**ab29188**)
Lane 2 : Human spinal cord tissue lysate - total protein (**ab29188**) with Immunising peptide at 1 µg/ml
Lane 3 : Human spinal cord tissue lysate - total protein (**ab29188**) with Non modified peptide at 1 µg/ml

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

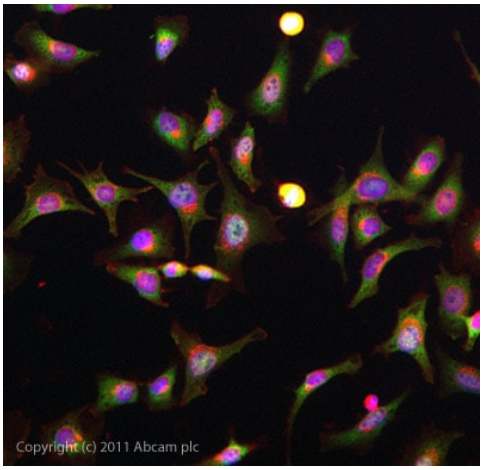
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 20 kDa
Observed band size: 23 kDa

Exposure time: 20 minutes

Alpha B Crystallin contains a potential glycosylation site (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Immunocytochemistry/ Immunofluorescence - Anti-Alpha B Crystallin (phospho S59) antibody (ab103282)

ab103282 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab103282 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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