

Product datasheet

Anti-Alpha B Crystallin antibody ab13497

★★★★★ 4 Abreviews 14 References 2 Images

Overview

Product name	Anti-Alpha B Crystallin antibody
Description	Rabbit polyclonal to Alpha B Crystallin
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, ICC, IP, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Chicken, Cow, Human, Pig Predicted to work with: Rabbit, Hamster 
Immunogen	Synthetic peptide: REEKPAVTAAPKK conjugated to KLH, corresponding to amino acids 163-175 of Human alpha B Crystallin. Run BLAST with Run BLAST with
Positive control	Recombinant Human Alpha B Crystallin protein (ab48779) can be used as a positive control in WB.
General notes	For maximum product recovery, after thawing, centrifuge the product vial before removing cap

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	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab13497** in the following tested applications.

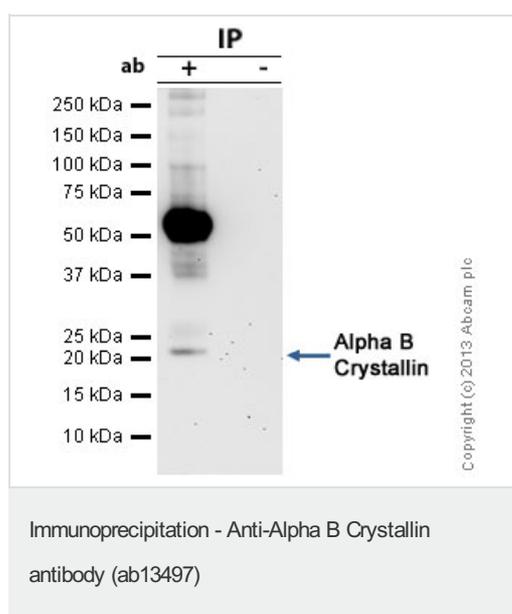
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
WB	★★★★★	1/1000 - 1/2000. Detects a band of approximately 22 kDa (predicted molecular weight: 20 kDa).
ICC		1/200.
IP		Use a concentration of 5 µg/ml.
IHC-P	★★★★★	Use at an assay dependent concentration.

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, hypertrophic 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



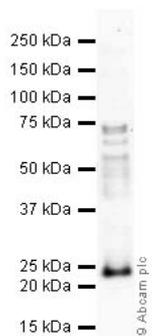
Alpha B Crystallin was immunoprecipitated using 0.5mg Mouse Spinal Cord tissue, 5µg of Rabbit polyclonal to Alpha B Crystallin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Spinal Cord tissue lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab13497.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 22kDa; Alpha B Crystallin



Western blot - Anti-Alpha B Crystallin antibody (ab13497)

Anti-Alpha B Crystallin antibody (ab13497) at 1/1000 dilution + Human spinal cord tissue lysate - total protein (ab29188) at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 20 kDa

Observed band size: 22 kDa

[why is the actual band size different from the predicted?](#)

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