

## **Product Datasheet**

# Alpha B Crystallin/CRYAB Antibody (orb669170)

**Catalog Number** orb669170

**Category Antibodies** 

**Description** Anti-Alpha B Crystallin/CRYAB Antibody. Tested in ELISA, Flow Cytometry, IF, IHC,

ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.

**Clonality** Polyclonal

Species/Host Rabbit

Isotype Rabbit IgG

Conjugation Unconjugated

Reactivity Human, Monkey, Mouse, Rat

Form/Appearance Lyophilized

Concentration Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

**Purification** Immunogen affinity purified.

**Immunogen** E.coli-derived human Alpha B Crystallin/CRYAB recombinant protein (Position:

E30-Q151).

**UniProt ID** P02511

MW 20 kDa

**Tested applications** ELISA, FC, ICC, IF, IHC, WB

**Application notes** Western blot, 0.1-0.25µg/ml, Mouse, Rat, Monkey Immunohistochemistry

(Paraffin-embedded Section), 2-5µg/ml, Human, Mouse, Rat

Immunocytochemistry/Immunofluorescence, 5µg/ml, Human Flow Cytometry

(Fixed), 1-3μg/1x106 cells, Human ELISA, 0.1-0.5μg/ml, -. Add 0.2ml of distilled

water will yield a concentration of 500ug/ml

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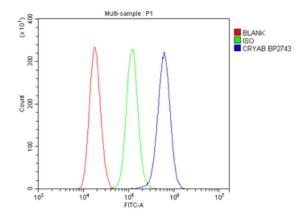
**Cross Reactivity** No cross-reactivity with other proteins.

**Antibody Type** Primary Antibody

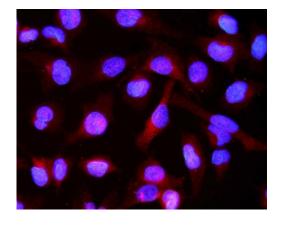
**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -

20°C in small aliquots to prevent freeze-thaw cycles.

**Note** For research use only



Flow Cytometry analysis of THP-1 cells using anti-Alpha B Crystallin/CRYAB antibody. Overlay histogram showing THP-1 cells (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Alpha B Crystallin/CRYAB Antibody (1  $\mu$ g/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10  $\mu$ g/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1  $\mu$ g/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 µg/mL rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. DyLight®594 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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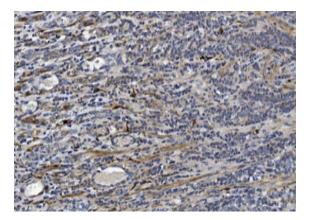
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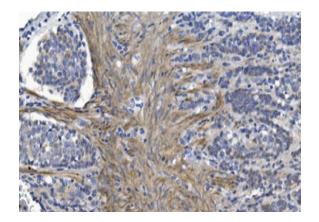
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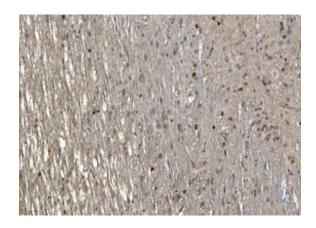




IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit lgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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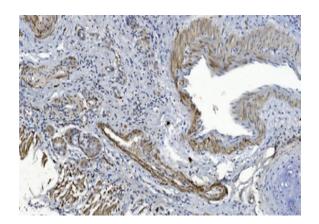
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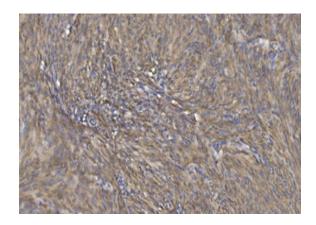
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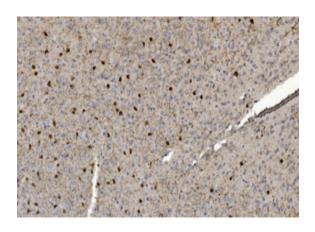




IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of human skin cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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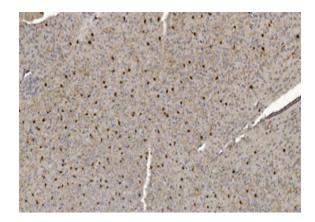
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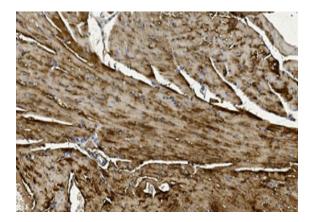
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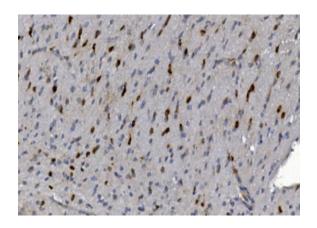




IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of mouse heart tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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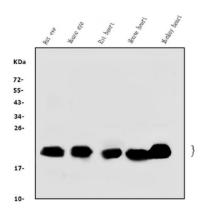
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IHC analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Alpha B Crystallin/CRYAB was detected in paraffin-embedded section of rat eye ball tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Alpha B Crystallin/CRYAB Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Western blot analysis of Alpha B Crystallin/CRYAB using anti-Alpha B Crystallin/CRYAB antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50 ug of sample under reducing conditions. Lane 1: rat eye tissue lysates, Lane 2: mouse eye tissue lysates, Lane 3: rat heart tissue lysates, Lane 4: mouse heart tissue lysates, Lane 5: monkey heart tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Alpha B Crystallin/CRYAB antigen affinity purified polyclonal antibody at 0.25 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Alpha B Crystallin/CRYAB2 at approximately 20 KD. The expected band size for Alpha B Crystallin/CRYAB is at 20 KD.

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