

Product Datasheet

AlphaB Crystallin/CRYAB Antibody NB100-2520

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-2520

AlphaB Crystallin/CRYAB Antibody

Product Information

Unit Size	0.1 ml
Concentration	0.9 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

Host	Rabbit
Gene ID	1410
Gene Symbol	CRYAB
Species	Human, Mouse
Reactivity Notes	Predicted to react with rat, sheep, rabbit, monkey, hamster, cow, and pig based on 100% sequence homology. Immunogen sequence has 92% homology to mouse. Mouse reactivity reported in scientific literature (PMID: 23586607).
Immunogen	A synthetic peptide made to a C-terminal region of the human Crystallin AB protein (within residues 100-175). [Swiss-Prot P02511]

Product Application Details

Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 0.5-1 ug/ml, Flow Cytometry 1:10-1:1000, ELISA 1:100-1:2000, Immunocytochemistry/Immunofluorescence 1: 50 - 1:150
Application Notes	This Crystallin AB antibody is useful for Western blot analysis, where a band is seen at ~20 kDa. There is also a band of greater intensity at ~40 kDa that may be an aggregated heteromeric complex. **CryAB aggregates with homologous proteins, including CryAA and the small heat shock protein HSP28, to form large heteromeric complexes. Use in ELISA, Flow Cytometry reported in scientific literature (PMID: 23586607).

Publications

Chauhan VS, Nelson DA, Marriott I, Bost KL. Alpha beta-crystallin expression and presentation following infection with murine gammaherpesvirus 68. Autoimmunit 2013-04-16 [PMID: 23586607] (FACS, ELISA, Mouse)

Details:

Using the Biotin conjugated version of NB100-2520, catalog number NB100-2520B.

Wu, G, Glickstein, S, Liu, W, Fujita, T, Li, W, Yang, Q, Duvoisin, R, Wan, Y. The Anaphase-promoting Complex Coordinates Initiation of Lens Differentiation, . 18, 1018-1029. 2007-01-01 [PMID: 17215516]

Procedures

Protocol specific for Crystallin AB Antibody (NB100-2520)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%, Bis-Tris) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, overnight at 4 degrees Celsius.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-crystallin AB primary antibody (NB 100-2520) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Pierce's ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

Primary Antibodies are guaranteed for 1 year from date of receipt.

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