

# Product Datasheet

## CRYBA1 Antibody - BSA Free

### NBP1-33010

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP1-33010**

CRYBA1 Antibody - BSA Free

| Product Information            |  |
|--------------------------------|--|
| <b>Unit Size</b>               | 0.1 ml   |
| <b>Concentration</b>           | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.   |
| <b>Storage</b>                 | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.   |
| <b>Clonality</b>               | Polyclonal   |
| <b>Preservative</b>            | 0.01% Thimerosal   |
| <b>Isotype</b>                 | IgG  |
| <b>Purity</b>                  | Antigen Affinity-purified  |
| <b>Buffer</b>                  | 0.1M Tris, 0.1M Glycine, 10% Glycerol  |
| <b>Target Molecular Weight</b> | 25 kDa   |
| Product Description            |  |
| <b>Description</b>             | Novus Biologicals Rabbit CRYBA1 Antibody - BSA Free (NBP1-33010) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-CRYBA1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| <b>Host</b>                    | Rabbit   |
| <b>Gene ID</b>                 | 1411   |
| <b>Gene Symbol</b>             | CRYBA1   |
| <b>Species</b>                 | Mouse  |
| <b>Reactivity Notes</b>        | Human reactivity reported in scientific literature (PMID: 31488069).   |
| <b>Immunogen</b>               | Full length human beta A3 Crystallin Recombinant protein.  |
| Product Application Details    |  |
| <b>Applications</b>            | Western Blot, Immunocytochemistry/ Immunofluorescence  |
| <b>Recommended Dilutions</b>   | Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence   |
| <b>Application Notes</b>       | Use in ICC/IF reported in scientific literature (PMID:31488069).   |

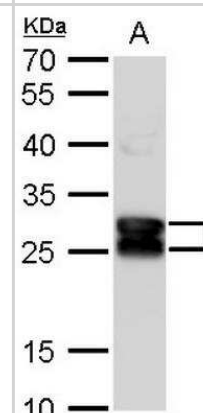


## Images

Western Blot: CRYBA1 Antibody [NBP1-33010] - The CRYBA1 p.G91del mutation reduced its expression in two cell lines. The protein levels of CRYBA1 were measured by Western blot. In 293T and SRA cells, the exogenous CRYBA1 was detected using anti-FLAG antibody; In SRA cells, the general CRYBA1 protein level was also measured using anti-CRYBA1 antibody. beta-Actin or GAPDH were used as internal control. NC, negative control: transfection reagent only. Image collected and cropped by CiteAb from the following publication ([bmcmedgenet.biomedcentral.com/articles/10.1186/s12881-019-0882-z](https://bmcmedgenet.biomedcentral.com/articles/10.1186/s12881-019-0882-z)), licensed under a CC-BY license.



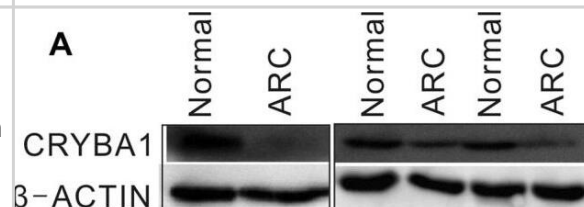
Western Blot: CRYBA1 Antibody [NBP1-33010] - A. 50 ug mouse fetal eye lysate/extract 12 % SDS-PAGE beta A3 Crystallin antibody dilution: 1:10000



Immunocytochemistry/ Immunofluorescence: CRYBA1 Antibody [NBP1-33010] - Immunofluorescence staining of exogenous WT & mutated CRYBA1 in 2 cell lines. After the WT & deleted forms of CRYBA1 cDNA constructs were transfected into 293 T & SRA lines, cells were stained with FLAG primary antibody. p.G91del mutation led to greater aggregation of the protein at the cell membrane. Blue: nuclear; green: exogenous CRYBA1, scale bar: 20  $\mu$ M Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31488069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: CRYBA1 Antibody [NBP1-33010] - CRYBA1 is expressed less in cataract lens epithelium. (a) Western blot images of CRYBA1 in ARC & normal control lens epithelium. Three samples from each group are presented.  $\beta$ -Actin was used as an internal control. (b) Quantification of the gel images of the Western blots in (a) (n = 3). (c) The mRNA level of CRYBA1 was measured by qPCR in ARC & normal control lens epithelium.  $\beta$ -Actin was used as an internal control (n = 3). Student's t test, \*P < 0.05, \*\*P < 0.01 Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31488069>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Ma Z, Yao W et al. Human beta A3/A1-crystallin splicing mutation causes cataracts by activating the unfolded protein response and inducing apoptosis in differentiating lens fiber cells. *Biochim Biophys Acta* 2016-01-06 [PMID: 26851658] (WB, Mouse)

Li D, Jing Q, Jiang Y The identification and characterization of the p.G91 deletion in CRYBA1 in a Chinese family with congenital cataracts *BMC Med. Genet.* 2019-09-05 [PMID: 31488069] (WB, ICC/IF, Human)





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### **Products Related to NBP1-33010**

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|             |   |
|-------------|---|
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP]                 |
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |

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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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