

Product Datasheet

CRYBA1 Antibody - BSA Free

NBP1-33010

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-33010

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-33010



NBP1-33010

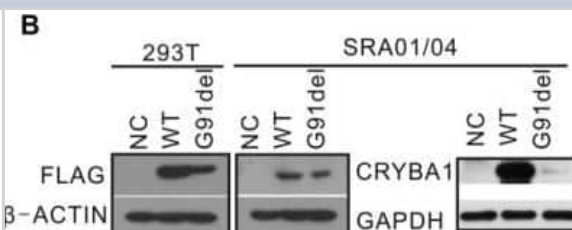
CRYBA1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Thimerosal
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	0.1M Tris (pH 7), 0.1M Glycine, 10% Glycerol
Target Molecular Weight	25 kDa
Product Description	
Description	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.
Host	Rabbit
Gene ID	1411
Gene Symbol	CRYBA1
Species	Mouse
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 31488069).
Immunogen	Full length human beta A3 Crystallin Recombinant protein.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence
Application Notes	Use in ICC/IF reported in scientific literature (PMID:31488069).

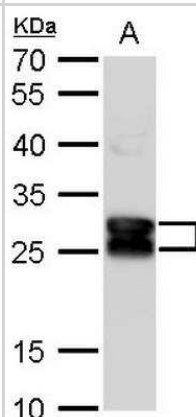


Images

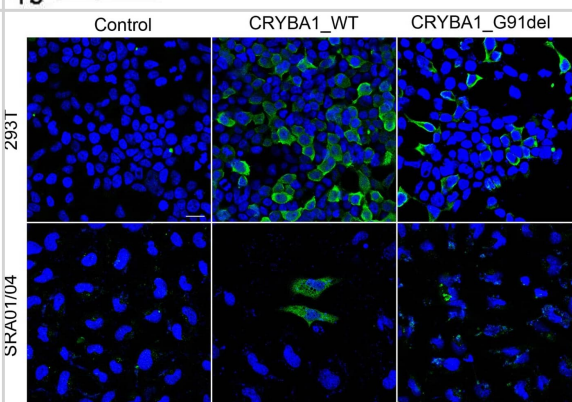
Western Blot: CRYBA1 Antibody [NBP1-33010] - The CRYBA1 p.G91del mutation reduced its expression in two cell lines. The protein levels of CRYBA1 were measured by Western blot. In 293T and SRA cells, the exogenous CRYBA1 was detected using anti-FLAG antibody; In SRA cells, the general CRYBA1 protein level was also measured using anti-CRYBA1 antibody. β -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://pubmed.ncbi.nlm.nih.gov/31488069)), licensed under a CC-BY license.



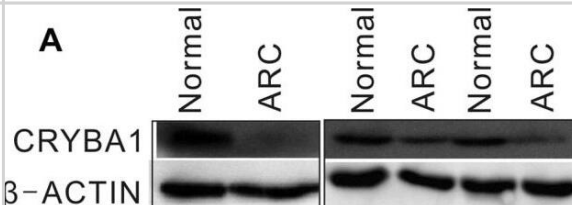
Western Blot: CRYBA1 Antibody [NBP1-33010] - A. 50 ug mouse fetal eye lysate/extract 12 % SDS-PAGE β A3 Crystallin antibody dilution: 1:10000



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 μ 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. β -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. β -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)





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-33010

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001411-P01-10ug	Recombinant Human CRYBA1 GST (N-Term) Protein

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-33010

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

