

Product datasheet

Anti-RDH5 antibody [EPR15191] ab200197

Recombinant RabMAb

[1 References](#) [5 Images](#)

Overview

Product name	Anti-RDH5 antibody [EPR15191]
Description	Rabbit monoclonal [EPR15191] to RDH5
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human RDH5 aa 50-150. The exact sequence is proprietary. Database link: Q92781
Positive control	WB: Mouse and rat eyeball lysates; Y79 cell lysate. ICC/IF: Y79 cells. IP: Rat eyeball whole cell lysate.
General notes	

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15191
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab200197** in the following tested applications.

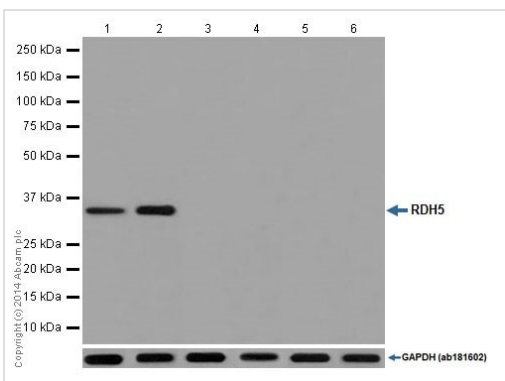
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/200. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).
ICC/IF		1/100.
IP		1/30.

Target

Relevance	RDH5 encodes an enzyme belonging to the short-chain dehydrogenases/reductases (SDR) family. This retinol dehydrogenase functions to catalyze the final step in the biosynthesis of 11-cis retinaldehyde, which is the universal chromophore of visual pigments. Mutations in this gene cause autosomal recessive fundus albipunctatus, a rare form of night blindness that is characterized by a delay in the regeneration of cone and rod photopigments.
Cellular localization	Membrane; Peripheral membrane protein

Images



Western blot - Anti-RDH5 antibody [EPR15191]
(ab200197)

All lanes : Anti-RDH5 antibody [EPR15191] (ab200197) at 1/5000 dilution

Lane 1 : Mouse eyeball lysate

Lane 2 : Rat eyeball lysate

Lane 3 : Mouse spleen lysate

Lane 4 : Rat spleen lysate

Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma) cell lysate

Lane 6 : NIH/3T3 (Mouse embryo fibroblast cells) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

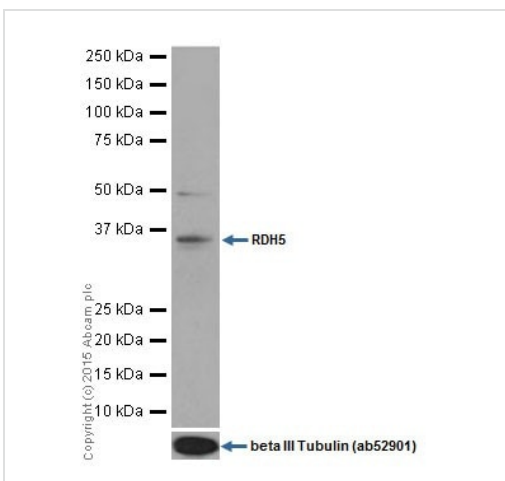
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 35 kDa

Observed band size: 35 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-RDH5 antibody [EPR15191]
(ab200197)

Anti-RDH5 antibody [EPR15191] (ab200197) at 1/200 dilution + Y79 (Human retinoblastoma cell line) cell lysate at 30 µg

Secondary

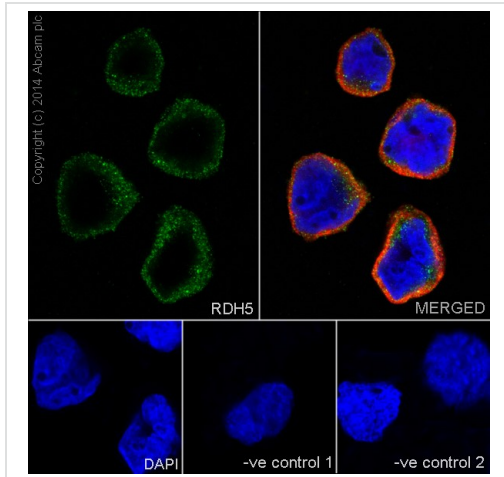
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 35 kDa

Observed band size: 35 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-RDH5 antibody [EPR15191] (ab200197)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Y79 (Human retinoblastoma cell line) cells labeling RDH5 with ab200197 at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green).

Cytoplasm staining on Y79 cell line is observed.

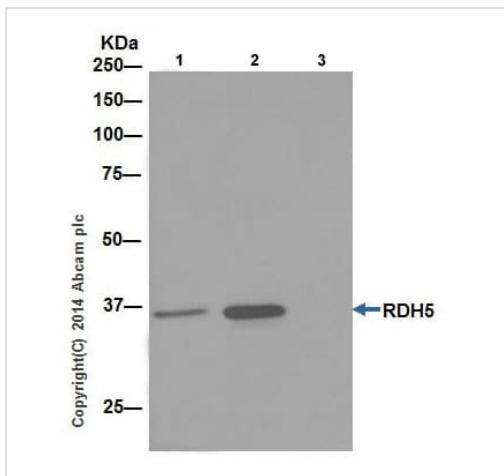
The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:-

-ve control 1: ab200197 at 1/100 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunoprecipitation - Anti-RDH5 antibody [EPR15191] (ab200197)

RDH5 was immunoprecipitated from 1mg of Rat eyeball whole cell lysate with ab200197 at 1/30 dilution.

Lane 1: Rat eyeball whole cell lysate 10ug (Input).

Lane 2: ab200197 IP in Rat eyeball whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab200197 in Rat eyeball whole cell lysate.


Western blot was performed from the immunoprecipitate using ab200197 at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 10 seconds.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-RDH5 antibody [EPR15191] (ab200197)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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