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Datasheet for ABIN966957

anti-RDH11 antibody





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Overview	
Quantity:	0.1 mg
Target:	RDH11
Reactivity:	Mouse
Host:	Please inquire
Clonality:	Polyclonal
Conjugate:	This RDH11 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)
Product Details	
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rarget Details	
Target:	RDH11
Alternative Name:	RDH11 (RDH11 Products)
Application Details	
Restrictions:	For Research Use only

Handling

4°C Storage:





Successfully validated (Immunohistochemistry (IHC))

by Palczewski Lab, Center For Translational Vision Research, UC Irvine

Report Number: 104470

Date: Mar 23 2023

Target:	RDH11	
Lot Number:	0618	
Method validated:	Immunohistochemistry (IHC)	
Positive Control:	Retina cryosection from B6 Albino (B6(Cg)-Tyrc-2J/J) animal	
Negative Control:	Retina cryosection from B6 Albino (B6(Cg)-Tyrc-2J/J) animal No primary antibody	
Notes:	Passed. Presence of specific signal in the RPE cell layer was considered as indication of specific immunoreactivity using the anti-RDH11 antibody ABIN966957.	
Primary Antibody:	ABIN966957	
Secondary Antibody:	donkey anti-rabbit AF647-conjugated antibody (Abcam, 150075)	
Protocol:	 Collect eyes from mice and fix with paraformaldehyde 4% (Electron Microscopy Sciences, 15710) in 1x PBS for 30 min at RT. Cryoprotection with sucrose series: Wash in 10% sucrose in 1x PBS. Immerse in 10% sucrose in 1x PBS for 30 min at RT. Wash in 20% sucrose in 1x PBS. Immerse in 20% sucrose in 1x PBS for 30 min RT. Wash in 30% sucrose in 1x PBS. 30% sucrose ON at 4°C. Embed eyes in OCT compound (Tissue-Tek O.C.T. Compound, 4583). Cut retinal sections at a thickness of 12 µm on a cryostat. Air dry sections for 15 min at RT, store at -80°C until use. Bring sections to RT and rehydrate in 1x PBS for 1 h. Incubate sections in blocking buffer (1x PBS, 3% BSA (Sigma-Aldrich, A7030), 3% Donkey serum (Sigma-Aldrich, S30-100ML), 0.1% Triton X-100 (Sigma-Aldrich, X100-500ML)) for 1 h at RT. Incubate sections with primary rabbit anti-RDH11 antibody (antibodies-online, ABIN966957, 	

Fisher Scientific, MA1-813).

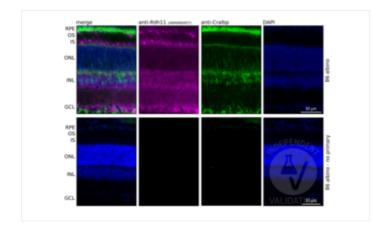
controls. Additionally, counterstaing with primary mouse anti-CRALBP antibody (Thermo

- Incubate sections with secondary AF647-conjugated donkey anti-rabbit antibody (Abcam, Ab150075) or AF488-conjugated donkey anti-mouse antibody (Thermo Fisher Scientific, A32766) diluted 1:500 in blocking buffer for 1 h at RT.
- Rinse sections once with 1x PBS, 0.1% Triton X-100 for 5 min at RT.
- Incubate sections in 1x DAPI (Thermo Fisher Scientific, 62248) in 1x PBS, 0.1% Triton X-100 for 15 min at RT.
- Rinse sections 3x with 1x PBS, 0.1% Triton X-100 for 5 min at RT.
- · Mount sections in VECTASHIELD® HardSet™ Antifade Mounting Medium (Vector Laboratories, H-1400) mounting medium.
- Acquire images with a fluorescence microscope and appropriate filter settings. For the validation purposes Keyence BZ-X800E fluorescence microscope was used with following filters: BZ-X DAPI for DAPI, BZ-X GFP for AF488, BZ-X Cy5 for AF647. Images were taken at 10x and 40x magnification.

Experimental Notes:

- Experiment involved validation of the specificity of 4 antibodies against different Rdh proteins: Rdh5 (ABIN7254060), Rdh10 (ABIN7118460), Rdh11 (ABIN966957), and Rdh12 (ABIN7167836). All 4 proteins are important for eye function and highly expressed in neural retina and/or RPE. Validation is based on comparison of each staining with known pattern of expression in the mouse retina. For review highlighting each Rdh localization see PMID20801113.
- · To aid orientation in the cell layers anti-Cralbp counterstain was included in the staining (Thermo MA1-813). Cralbp (Rlbp1) is highly expressed in RPE and Müller glia cells in mouse retina.

Image for Validation report #104470



Validation image no. 1 for anti-Retinol Dehydrogenase 11 (All-Trans/9-Cis/11-Cis) (RDH11) antibody (ABIN966957)

Retinal sections from the wild-type (B6 albino) mice immunostained with anti-RDH11 antibody ABIN966957. DAPI staining shows localization of the inner (INL) and outer (ONL) nuclear layer of the mouse retina. Cralbp (Rlbp1) costaining was used to visualize RPE and Müller glia cells in the retina. Presence of specific signal in the RPE cell layer confirms specific immunoreactivity.