

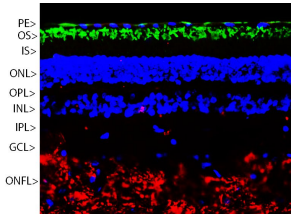
Anti-Rhodopsin Antibody [A531] (A85374)

Specifications:

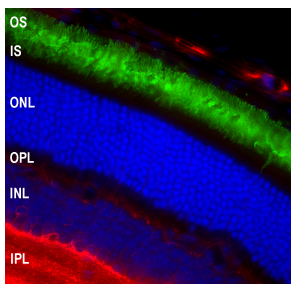
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|------------------------|--|
| Name: | Anti-Rhodopsin Antibody [A531] |
| Description: | Mouse monoclonal (A531) antibody to Rhodopsin. |
| Specificity: | The epitope for this antibody resides in the N-terminal 32 amino acids of bovine Rhodopsin. |
| Applications: | WB, ICC/IF, IHC |
| Recommended Dilutions: | WB: 1:5,000, ICC/IF: 1:1,000, IHC: 1:1,000 |
| Reactivity: | Human, Rat, Mouse, Bovine, Porcine, Horse |
| Immunogen: | Native Rhodopsin purified from bovine retina. |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Clone ID: | A531 |
| Isotype: | IgG1 |
| Conjugate: | Unconjugated |
| Purification: | Immunogen affinity purification. |
| Concentration: | 1 mg/ml |
| Molecular Weight: | 35 kDa |
| Product Form: | Liquid |
| Formulation: | Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide. |
| Storage: | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Disclaimer: | This product is for research use only. It is not intended for diagnostic or therapeutic use. |

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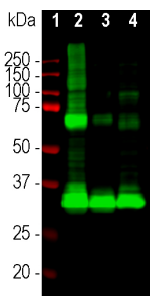
Images:



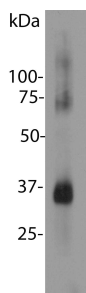
Pig retinal section stained with Anti-Rhodopsin Antibody (green), Anti-NF-M Antibody (A85323 | red) and DNA (blue). Rhodopsin is most abundant in the outer segments of retina (OS), NF-M is abundant in the optic nerve fiber layer (ONFL), but seen in processes and neurons in other regions also. Other layers are pigmented epithelium (PE), outer and inner nuclear layers (ONL, INL), outer and inner plexiform layers (OPL, IPL) and ganglion cell layer (GCL).



Immunofluorescent analysis of mouse retina section stained with Anti-Rhodopsin Antibody [A531] (A85374), at a dilution of 1:2,000, in green, and co-stained with Anti-GAP43 Antibody (A85394), at a dilution of 1:1,000 in red. The nuclear DNA is visualised in blue using Hoechst staining. The Anti-Rhodopsin Antibody [A531] (A85374) reveals rhodopsin protein in rod cell membranes located in outer segments of photoreceptors layer (OS) of retina. The Anti-GAP43 Antibody (A85394) stains axons of neuronal cells in the inner plexiform layer (IPL), where it was present in three distinct bands.



Western blot analysis of retinal lysates from different species using Anti-Rhodopsin Antibody [A531] (A85374), at a dilution of 1:5,000, in green. The lanes contain samples of: [1] Protein standards, in red, [2] rat [3] mouse and [4] cow retina lysates. The strong band at 35 kDa corresponds to rhodopsin protein. Bands around 70 kDa and 140 kDa result from the known tendency of rhodopsin to aggregate on SDS-PAGE gels.



Blot of bovine retinal extracts probed with Anti-Rhodopsin Antibody. The antibody stains a band corresponding to retinal rhodopsin at about 35 kDa. Bands about 70 kDa and 140 kDa are aggregated forms of rhodopsin. Note, due to the highly hydrophobic nature of rhodopsin, it is important not to boil a sample containing it in SDS-PAGE sample buffer, as this will result in more extensive aggregation of the rhodopsin protein.