Anti-Recoverin

Polyclonal Antibody

Cat. # AB5585

Lot # JBC1766791

pack size: 100 µL

Store at -20ºC

FOR RESEARCH USE ONLY

Certificate of Analysis

Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/ Region	Host Species	Molecular Weight	Accession #
WB, IH	H, R, M, Ch, Fg	N/A	N/A	Rb	26 kDa	NM_002903.2

Background

Recoverin is a calcium-binding protein expressed in retinal photoreceptors and midget cone bipolar cells. It appears to delay the termination of the phototransduction cascade by blocking the phosphorylation of photoexcited rhodopsin.

Presentation

Rabbit polyclonal serum. Contains no preservative.

Specificity

Recognizes recoverin.

Species Cross-reactivity

Human, rat, mouse, chicken and frog. Other species have not been tested.

Immunogen

Recombinant human recoverin.

Molecular Weight

26 kDa

Storage and Handling

Maintain at -20℃ in undiluted for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles. **Do not store in a self-defrosting freezer**.

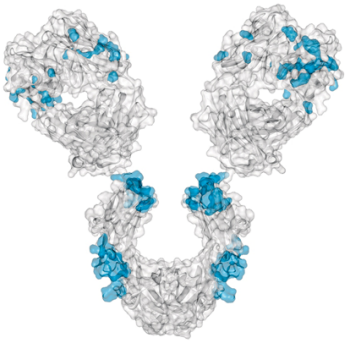
During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

Control

POSITIVE CONTROL: Recoverin is found in photoreceptors and midget cone bipolar cells in retina and pinealocytes in pineal gland.

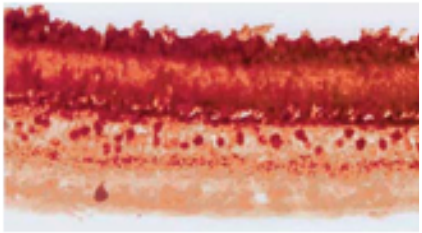
Research Applications

Western Blot Analysis: 1:1,000-1:5,000 dilution using ECL.



References

1 Jacoby, R., *et al*. (2000). *J. Comp. Neurol*. 416:6-18.
2. Yan, X-X., *et al*. (1997). *Anat. Embryol*. 195:51-63.
3. Wiechmann, A., *et al*. (1997). *Mol. Brain Res*. 45:321-324.
4. Wiechmann, A., *et al*. (1996). *J. Neurochem*. 67:105-10.



Immunohistochemistry: Representative lot data. Rabbit anti-Recoverin (Catalog Number AB5585). Immunolocalization of recoverin in human retina.

Immunohistochemistry: 1:1,000 (2 hours at room temperature or overnight at 2-8ºC) on frozen and paraffin embedded tissue sections. Suggested fixative is 4% paraformaldehyde or 3% paraformaldehyde with 0.1% glutaraldehyde. Suggested permeabilization solution is 0.1% Triton X-100. Suggested blocking buffer is 0.05 M Tris saline, pH 7.4 containing 2.5% BSA, 0.1% triton and 0.05% sodium azide.

Optimal working dilutions must be determined by the end user.

PROTOCOL

Western Blot

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on cell lysate and transfer the proteins to a PVDF membrane. Wash the PVDF membrane twice with water.
2. Block the blotted PVDF membrane in freshly prepared 5% BSA or milk with 0.05% Tween®-20 for 1 hour at room temperature with constant agitation.
3. Incubate the PVDF with the recommended dilution of anti-Recoverin diluted in freshly prepared 5% BSA or milk for 1 hour at room temperature or overnight with agitation at 2-8℃.
4. Wash the PVDF 3 times with TBST.
5. Incubate the PVDF in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, Catalog # 12-348 1:1000 dilution was used) in 5% milk for 1 hour with agitation at room temperature.
6. Wash the PVDF 3-5 times with TBST.
7. Use Spray and Glow Catalog # 17-373 to visualize results. Use as directed.

RELATED PRODUCTS (specific)

cat #	description
AB5585	Anti-Recoverin

RELATED PRODUCTS (non-specific)

cat #	description
IPVH00010	Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	Immobilon Western Chemilum HRP Substrate 100 mL
17-373	Spray & Glow™ ECL WB Detection System 1 ea
2060	Re-Blot Western Blot Recycling Kit
2500	Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	Blot Quick Blocker Membrane Blocking Agent 175G

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