

Product datasheet

Anti-PHOS/PDC antibody [EPR21913] ab221138

Recombinant RabMAb

8 Images

Overview

Product name	Anti-PHOS/PDC antibody [EPR21913]
Description	Rabbit monoclonal [EPR21913] to PHOS/PDC
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC-Fr, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human eye tissue lysate; Mouse and rat retina tissue lysate. IHC-P: Mouse, rat and human retina tissues. IHC-Fr: Mouse and rat retina tissues. IP: Mouse eyeball tissue lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21913
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab221138 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		1/1000. Predicted molecular weight: 28 kDa.
IHC-P		1/2000. Perform antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0).
IHC-Fr		1/100. Heat-mediated antigen retrieval by sodium citrate buffer (10 mM citrate pH 6.0 + 0.05% Tween-20)
IP		1/30.

Target

Function

May participate in the regulation of visual phototransduction or in the integration of photoreceptor metabolism. Inhibits the transcriptional activation activity of the cone-rod homeobox CRX.

Sequence similarities

Belongs to the phosducin family.

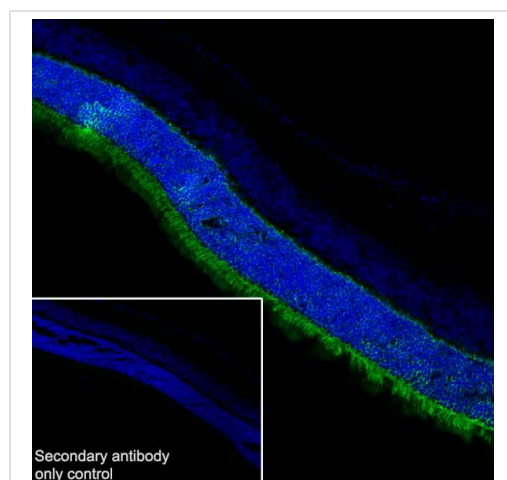
Post-translational modifications

Light-induced changes in cyclic nucleotide levels modulate the phosphorylation of this protein by cAMP kinase.

Cellular localization

Nucleus and Cytoplasm > cytosol. Cell projection > cilium > photoreceptor outer segment. Photoreceptor inner segment. Nucleus. Outer and inner segments of the rod cells.

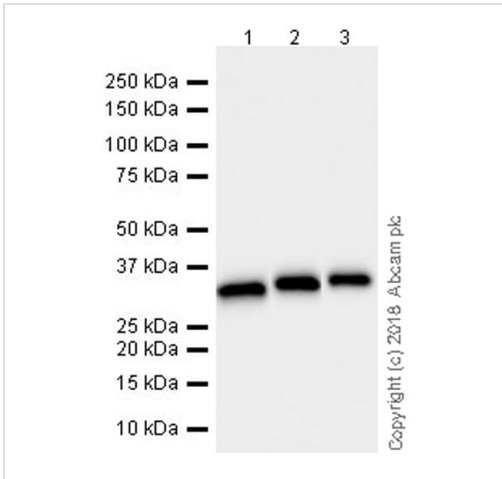
Images



Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized mouse retina tissue labeling PHOS/PDC with ab221138 at 1/100 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary (**ab150077**) at 1/1000 dilution. Positive staining on mouse retina is observed. Counterstained with DAPI (Nuclear).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor®488 Goat anti-Rabbit secondary (**ab150077**) at 1/1000 dilution.

Immunohistochemistry (Frozen sections) - Anti-PHOS/PDC antibody [EPR21913] (ab221138)



Western blot - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

All lanes : Anti-PHOS/PDC antibody [EPR21913] (ab221138) at 1/1000 dilution

Lane 1 : Human eye tissue lysate

Lane 2 : Mouse retina tissue lysate

Lane 3 : Rat retina tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 28 kDa

Exposure time: 15 seconds

Blocking/diluting buffer and concentration: 5% NFDm/TBST.

The molecular mass observed is consistent with the literature (PMID 8816766).

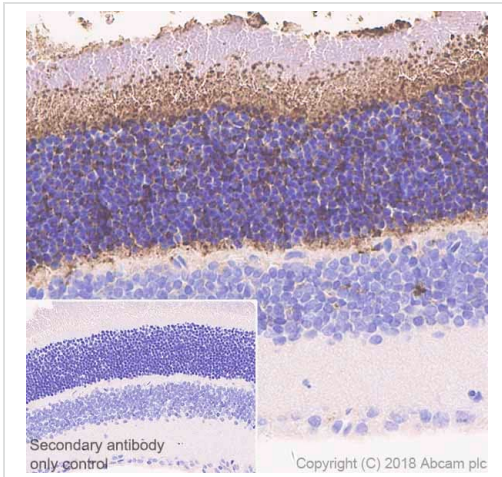


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

Immunohistochemical analysis of paraffin-embedded mouse retina tissue labeling PHOS/PDC with ab221138 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use. Positive staining on mouse retina, performed on a Leica Biosystems BOND[®] RX instrument (PMID: 11287646, PMID: 10617777) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use.

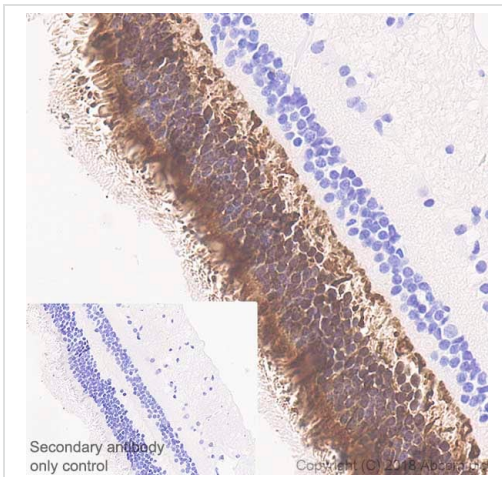
Antigen retrieval was performed using Bond[™] Epitope Retrieval Solution 2 (pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

Immunohistochemical analysis of paraffin-embedded rat retina tissue labeling PHOS/PDC with ab221138 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use. Positive staining on rat retina, performed on a Leica Biosystems BOND[®] RX instrument (PMID: 11287646, PMID: 10617777) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use.

Antigen retrieval was performed using Bond[™] Epitope Retrieval Solution 2 (pH 9.0).

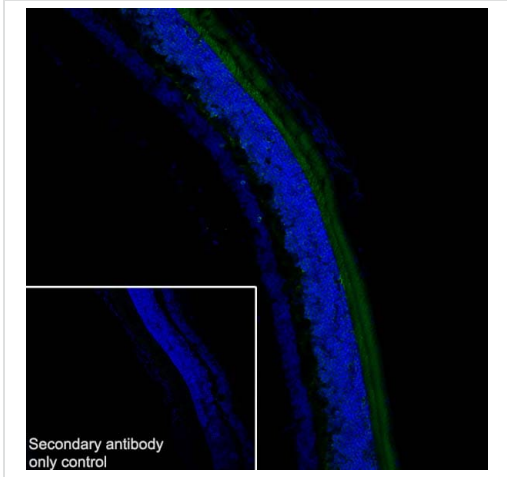


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

Immunohistochemical analysis of paraffin-embedded human retina tissue labeling PHOS/PDC with ab221138 at 1/2000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use. Positive staining on human retina, performed on a Leica Biosystems BOND[®] RX instrument (PMID: 11287646, PMID: 10617777, PMID: 15842737) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) ready to use.

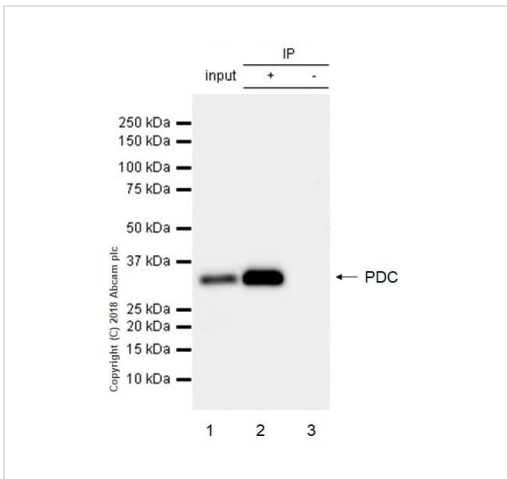
Antigen retrieval was performed using Bond[™] Epitope Retrieval Solution 2 (pH 9.0).



Immunohistochemistry (Frozen sections) - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized rat retina tissue labeling PHOS/PDC with ab221138 at 1/100 dilution, followed by AlexaFluor[®]488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution. Positive staining on mouse retina is observed. Counterstained with DAPI (Nuclear).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor[®]488 Goat anti-Rabbit secondary ([ab150077](#)) at 1/1000 dilution.



Immunoprecipitation - Anti-PHOS/PDC antibody [EPR21913] (ab221138)

PHOS/PDC was immunoprecipitated from 0.35 mg of mouse eyeball tissue lysate with ab221138 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab221138 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1/5000 dilution.

Lane 1: Mouse eyeball tissue lysate 10 μ g (input).

Lane 2: ab221138 IP in mouse eyeball tissue lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab221138 in mouse eyeball lysate.

Blocking and diluting buffer and concentration: 5% NFDN/TBST.

Exposure time: 30 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-PHOS/PDC antibody [EPR21913] (ab221138)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors