

For Research Use Only

# PCARE Recombinant antibody, PBS Only

Catalog Number: 83364-4-PBS



## Basic Information

<b>Catalog Number:</b> 83364-4-PBS	<b>GenBank Accession Number:</b> NM_001029883	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 388939	<b>CloneNo.:</b> 240352F6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> A6NGG8	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome 2 open reading frame 71	
<b>Immunogen Catalog Number:</b> AG34774	<b>Calculated MW:</b> 140 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Species Specificity:**  
human, mouse

## Background Information

C2orf71/PCARE (photoreceptor cilium actin regulator) is a retina-specific protein consisting of 1289 amino acids with a predicted molecular weight of 140 kDa. PCARE is predicted to be myristoylated and palmitoylated at its N terminus and plays an important role in delivering actin-associated components to the base of the photoreceptor OSs to regulate the initial development of OS disks (PMID: 32312818, 35253837).

## Storage

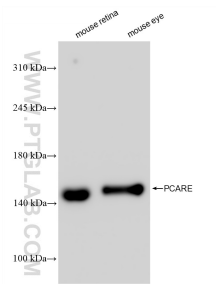
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

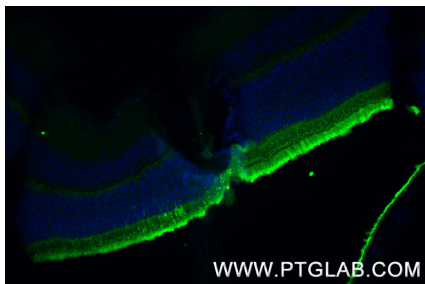
Selected Validation Data



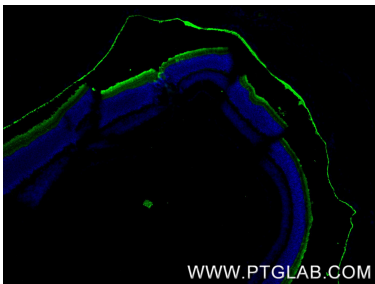
Various lysates were subjected to SDS PAGE followed by western blot with 83364-4-RR (PCARE antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83364-4-PBS in a different storage buffer formulation.



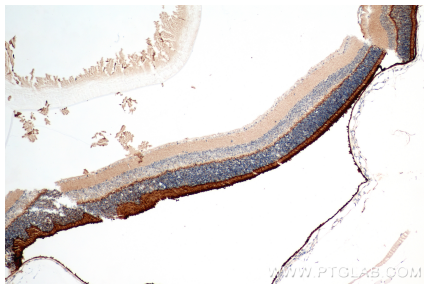
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 83364-4-RR (PCARE antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83364-4-PBS in a different storage buffer formulation.



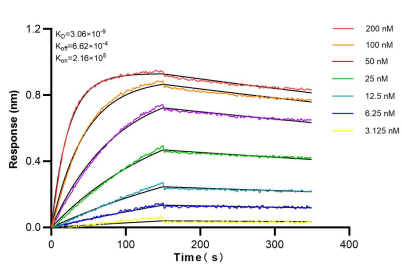
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using PCARE antibody (83364-4-RR, Clone: 240352F6 ) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83364-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using PCARE antibody (83364-4-RR, Clone: 240352F6 ) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83364-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 83364-4-RR (PCARE antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83364-4-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 83364-4-RR against Human PCARE were performed. The affinity constant is 3.06 nM.