

For Research Use Only

# Arrestin C Polyclonal antibody

Catalog Number: 11100-2-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 11100-2-AP	<b>GenBank Accession Number:</b> BC012096	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 407	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P36575	
<b>Isotype:</b> IgG	<b>Full Name:</b> arrestin 3, retinal (X-arrestin)	
<b>Immunogen Catalog Number:</b> AG1580	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF, ELISA	<b>Positive Controls:</b> WB : human brain tissue, mouse eye tissue, mouse heart tissue IHC : mouse eye tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Arrestin C, also known as Arrestin 3 or Retinal Cone Arrestin, is a protein encoded by the ARR3 gene. It belongs to the arrestin family, which plays a crucial role in regulating G-protein-coupled receptor (GPCR) signaling and trafficking. Arrestin C is composed of two major domains: the N-domain and the C-domain, connected by a hinge region. These domains form a structure resembling two clamshells placed end-to-end. The C-terminal tail (C-tail) of Arrestin C interacts extensively with the N-domain, stabilizing its basal conformation. Arrestin C is predominantly expressed in cone photoreceptors and pinealocytes in the retina. It is involved in the shut-off mechanisms associated with high-acuity color vision by binding to phosphorylated and activated opsins, thereby inhibiting their ability to interact with transducin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jing Liu	34552068	Nat Commun	IHC
Santiago Zugbi	32971811	Cancers (Basel)	IHC
Ursula Winter	30832308	Int J Mol Sci	IHC

## Storage

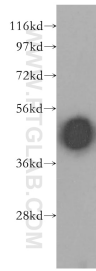
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

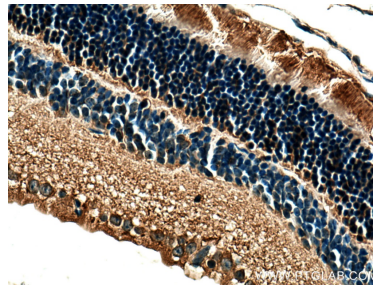
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

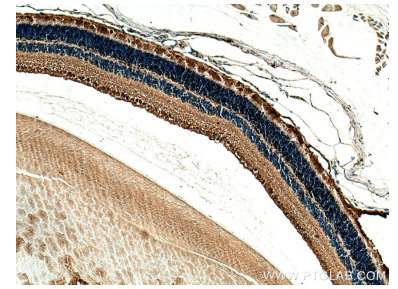
## Selected Validation Data



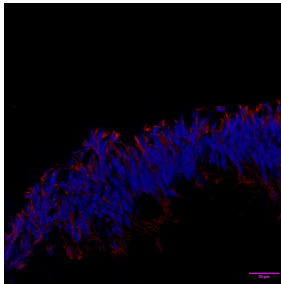
human brain tissue were subjected to SDS PAGE followed by western blot with 11100-2-AP (Arrestin C antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 11100-2-AP (Arrestin C antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 11100-2-AP (Arrestin C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Retinal organoids (day 220) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA, Stained for Arrestin C with 11100-2-AP at 1:400. Nuclear stain DAPI (blue). Scale bar = 20  $\mu$ m. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.