

For Research Use Only

Arrestin C Recombinant antibody, PBS Only

Catalog Number: 85067-5-PBS



Basic Information

Catalog Number: 85067-5-PBS	GenBank Accession Number: BC012096	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 407	CloneNo.: 242751B12
Source: Rabbit	UNIPROT ID: P36575	
Isotype: IgG	Full Name: arrestin 3, retinal (X-arrestin)	
Immunogen Catalog Number: AG1580	Calculated MW: 43 kDa	
	Observed MW: 47-50 kDa	

Applications

Tested Applications:
WB, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat

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.

Storage

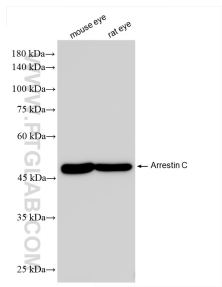
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

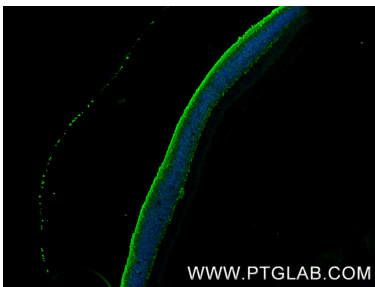
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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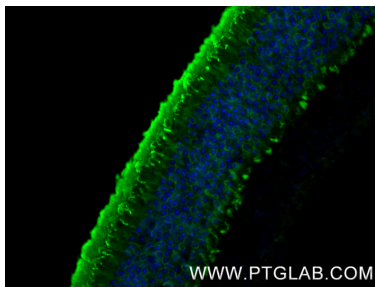
Selected Validation Data



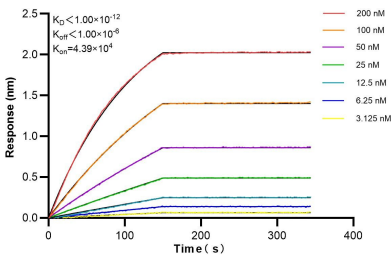
Various lysates were subjected to SDS PAGE followed by western blot with 85067-5-RR (ARR3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85067-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using Arrestin C antibody (85067-5-RR, Clone: 242751B12) 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 85067-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using Arrestin C antibody (85067-5-RR, Clone: 242751B12) 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 85067-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85067-5-RR against Human Arrestin C were performed. The affinity constant is below 1 pM.