Antibody to Melanopsin
RABBIT POLYCLONAL

Catalog Number: AB-N38
Quantity: 50 microliters
Format: Antiserum
Host: Rabbit
Clone: UF006

Background: Intrinsically photosensitive retinal ganglion cells (ipRGCs) contain melanopsin. The ipRGCs, with their amazing long processes, are involved in the perception of light and dark and are circadian rhythm determinants. Anti-Melanopsin (UF006) has very high specificity to mouse ipRGCs.

Specificity & Preparation: Anti-Melanopsin (UF006) recognizes a sequence representing the 15 most N-terminal amino acids of the mouse melanopsin extracellular domain. Anti-Melanopsin (UF006) does not cross-react with melanopsins of other species, it is very specific for mouse. This antibody is routinely tested by immunofluorescence.

Usage: Applications include immunofluorescence. This antibody does NOT work in immunoblotting.

Storage: Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

For research use only, not for use as a diagnostic.   7/13/23

Advanced Targeting Systems

6352 CORTE DEL ABETO, STE B
CARLSBAD, CA 92011 USA
01.858.642.1988 • WWW.ATSBIO.COM

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Selected References:

Scan to view all product references.

1. Göz D, Studholme K, Lappi DA, Rollag MD, Provencio I, Morin LP (2008) Targeted destruction of photosensitive retinal ganglion cells with a saporin conjugate alters the effects of light on mouse circadian rhythms. PLoS ONE 3(9):e3153.
2. Provencio I, Rollag MD, Castrucci AM (2002) Photoreceptive net in the mammalian retina. Nature 415:493.

To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols

	AB-N38	AB-N39	Negative Control
Flat-mount retina			
Flat-mount retina			
Retina Sections 1:2500			
Retina Sections 1:4000			

Anti-Melanopsin staining on either flat-mount or cross-section staining of mouse retina. Staining of the antibody is shown in green. Blue is DAPI and tdTomato (red) signal from OPN4^{cre}; R26$^{Syp-tdT}$ mouse line. Cat. #AB-N38 (neat sera) is lot #205-130 and Cat. #AB-N39 (affinity-purified) is lot #205-129. *Images supplied courtesy of Wenjin Xu, Xiarong Lu, and Ignacio Provencio at the University of Virginia.*

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