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CARLSBAD, CA 92011 USA  
01.858.642.1988 • WWW.ATSBIO.COM

**Biotin-labeled Antibody to Melanopsin, Affinity-purified  
RABBIT POLYCLONAL**

**Catalog Number:** BT-N39  
**Quantity:** 50 micrograms  
**Format:** PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4).  
**Host:** Rabbit  
**Clone:** UF008

**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. Affinity-purified Anti-Melanopsin (UF008) has very high specificity to mouse ipRGCs.

**Specificity and Preparation:**

Affinity-purified anti-Melanopsin (UF008) was raised against the 15 N-terminal extracellular amino acids of mouse melanopsin. It has been conjugated to biotin via an amide bond. This antibody does not cross-react with melanopsins of other species, it is very specific for mouse.

**Usage and Storage:**

Applications include immunocytochemistry (1  $\mu$ g/ml). Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

**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.

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